PROJECT SUMMARY

PROJECT ADDRESS:
3048 TYLER AVENUE, EL MONTE, CA, 91731

APPLICABLE CODES:
THIS PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

PARTIAL LIST OF APPLICABLE CODES
2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2012 IAPMO UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGUILATIONS

PARTIAL LIST OF APPLICABLE STANDARDS
REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (SFM) CHAPTER 35

********[ADD MORE TO LIST]

PROJECT DESCRIPTION /SCOPE OF WORK:

CONSTRUCTION OF:
1. SPECTATOR BLEACHERS (QUANTITY OF 3) FOR FOOTBALL FIELD (BY SOUTHERN BLEACHER COMPANY).

2. CONSTRUCTION OF MODULARS :
   A. MODULAR TOILET AND CONCESSION BUILDINGS
   12' x 40' AND 12' x 60' MODULES (BY SILVER CREEK)

   B. MODULAR TICKET BOOTH BUILDINGS
   8'-6" x 15'-6" MANUFACTURED RELOCATED (BY SILVER CREEK)

3. RE-CONSTRUCTION OF TRACK AND FIELD SURFACES, NEW FENCES, NEW GATES AND RELATED SITE WORK.

PROJECT CODE INFORMATION

BLEACHERS:
CONSTRUCTION TYPE II-B
OCCUPANCY GROUP A-5

RESTROOM AND TICKET BOOTH BUILDINGS:
CONSTRUCTION TYPE VB
OCCUPANCY GROUP E
BASIC ALLOWABLE AREA [2013 CBC TABLE 503]: 9,500 S.F.; 1 STORY

MODULAR TOILET AND CONCESSION BUILDING (VISITOR STAND)
12' x 40' AND 12' x 60' MODULES
BUILDING AREA: 1,440 S.F.
NON-SPRINKLERED; NOT REQUIRED PER [2013 CBC 903.2.3]

MODULAR TICKET BOOTH BUILDING
8'-6" x 15'-6"
BUILDING AREA: 131 S.F.
NON-SPRINKLERED; NOT REQUIRED PER [2013 CBC 903.2.3]

MODULAR TOILET AND CONCESSION BUILDING (HOME STAND)
12' x 40' AND 12' x 60' MODULES
BUILDING AREA: 1,440 S.F.
SPRINKLERED: (18'-0" DISTANCE TO ADJACENT (E) ELECTRICAL ROOM)

AREA:	32,856 S.F.
OCCUPANT LOAD:	671 OCCUPANTS

GOVERNING AGENCIES

DIVISION OF THE STATE ARCHITECT (DSA)

DSA LOS ANGELES REGIONAL OFFICE

LOCAL FIRE AUTHORITY

LOS ANGELES COUNTY FIRE MARSHAL

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2013 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY A ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) PRIOR TO THE COMMENCEMENT OF THE WORK SHOWN, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
4. A DSA CERTIFIED INSPECTOR WITH CLASS 2 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
5. AN INSPECTOR IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BU THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
7. "SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

CONSULTANT PLANS

STATEMENT OF GENERAL CONFORMANCE
THE DRAWINGS OR SHEETS LISTED IN THE INDEX ON THIS SHEET (OTHER THAN GENERAL AND ARCHITECTURAL) HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND 2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THIS STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317) (B))

I CERTIFY THAT ALL THE DRAWINGS OR SHEETS LISTED IN THE INDEX ON THIS SHEET ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED.

Robert M. Simons
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

ARCHITECT OF RECORD

SVA ARCHITECTS, INC. IS THE DESIGNATED ARCHITECT OF RECORD AS REQUIRED BY THE STATE OF CALIFORNIA. THE ARCHITECT OF RECORD SHALL REVIEW SUBMITTALS AND COORDINATE SUBMITTALS AND DEFERRED SUBMITTALS THROUGH THE DIVISION OF THE STATE ARCHITECT. DEFERRED SUBMITTALS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

DSA SHALL BE NOTIFIED IN WRITING BY THE OWNER IF THE ARCHITECT OF RECORD IS CHANGED OR IS UNABLE TO CONTINUE TO PERFORM THE DUTIES. THE OWNER SHALL DESIGNATE A SUBSTITUTE ARCHITECT OR ENGINEER OF RECORD WHO SHALL PERFORM ALL OF THE DUTIES REQUIRED OF THE ORIGINAL ARCHITECT OF RECORD.

REVIEW AND COMMENTS ON SUBMITTALS AND DEFERRED SUBMITTALS SHALL NOT RELIEVE THE AUTHOR OF THE DOCUMENTS OR THE CONTRACTOR FROM COMPLIANCE WITH ALL APPLICABLE CODES AND THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

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_GEN-2	GENERAL NOTES
_GEN-3	ACCESSIBLITY COMPLIANCE
_GEN-4	ACCESSIBLITY COMPLIANCE

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C2	DETAIL SHEET
C3	DEMOLITION PLAN
C4	GRADING AND DRAINAGE PLAN
C5	STORM DRAIN AND UTILITY PLAN
C6	EROSION CONTROL PLAN
C7	PARTIAL SITE TOPOGRAPHY SURVEY MAP
C8	DETAIL SHEET
C9	DETAIL SHEET
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E103a	ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (VISITORS)
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC___FLS___SS____
Date______

MODULAR TICKET BOOTH BUILDINGS 8'-6" x 15'-6" (BY SILVER CREEK)

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MODULAR TOILET AND CONCESSION BUILDINGS 12' x 40' AND 12' x 60' MODULES (BY SILVER CREEK)

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E-1.02-M1	ELECTRICAL PLAN AND SCHEDULE

FIRE SPRINKLER: (REQUIRED ONLY FOR "HOME STAND").

FS1	PROJECT DATA
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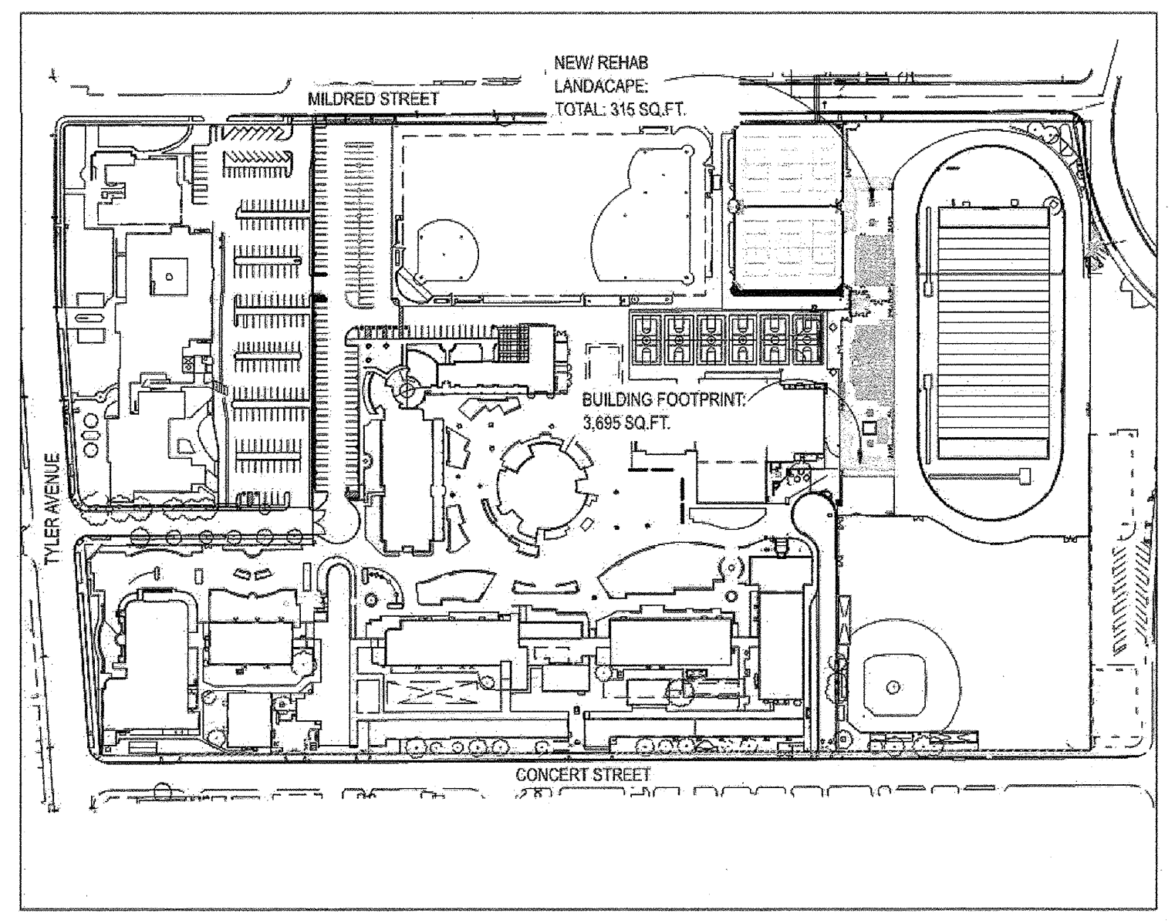
FS3	DETAILS

LANDSCAPE SITE PLAN LOCATION



SITE LANDSCAPE LOCATION AREA MAP SEE Sheet L-1.1

PROJECT DIRECTORY

OWNER
EL MONTE UNION HIGH SCHOOL DISTRICT
3537 JOHNSON AVENUE,
EL MONTE, CA 91731
(626) 444-9005
PROJECT CONTACT:
Norma Macias

ARCHITECT
SVA ARCHITECTS
3 MACARTHUR PLACE, STE 850
SANTA ANA, CA 92707
PHONE: (949) 809-3380
PROJECT CONTACT:
DOUG BROWN

CIVIL ENGINEER
MSL ENGINEERING, INC.
402 WEST ARROW HIGHWAY, STE 4
SAN DIMAS, CA 91773
(909) 305-2395
PROJECT CONTACT:
MARK LAMOUREUX

LANSCAPE ENGINEER
ARCHI TERRA DESIGN GROUP
10221-A Trademark,
Rancho Cucamonga, CA 91730
909-484-2800 EX# 307
PROJECT CONTACT:
ROBERT COLLINGS

STRUCTURAL ENGINEER
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
(714) 352-6297
PROJECT CONTACT:
STEPHANIE WELSH

ELECTRICAL ENGINEER
PBS ENGINEERS
2100 EAST ROUTE 66, SUITE 101
GLENDORA, CA 91740
PHONE: (626) 650-0350
PROJECT CONTACT:
LOUIS PEREZ

MECHANICAL ENGINEER
PBS ENGINEERS
2100 EAST ROUTE 66, SUITE 101
GLENDORA, CA 91740
PHONE: (626) 650-0350
PROJECT CONTACT:
LOUIS PEREZ

LOG OF DRAWINGS

	DATE	DESCRIPTION		DATE	DESCRIPTION
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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Robert M. Simons
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS EB SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED:	01-23-2017
PROJECT NO:	2014-40163
SCALE:	
SHEET NUMBER:	_GEN-1
SHEET TITLE:	

DIRECTORY AND INDEX SHEET

SVA ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

ACCESSIBILITY NOTES

1. SITE DEVELOPMENT

A. GRADE AND DEVELOP SITE SUCH THAT ALL PRIMARY BUILDING ENTRANCES ARE ACCESSIBLE TO THE PHYSICALLY DISABLED FROM THE PUBLIC WAY AND DISABLED PARKING PROVIDED.

B. ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES AND SPACES ON THE SAME SITE. WHERE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES SHALL BE ACCESSIBLE

C. IF AN ACCESSIBLE ROUTE HAS A CHANGE IN LEVEL GREATER THAN 1/2", THEN A CURB RAMP, RAMP, ELEVATOR, OR PLATFORM LIFT SHALL BE PROVIDED.

D. ALL WALKS, HALLS, CORRIDORS, AISLES, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 48 INCHES AND A CLEAR HEIGHT OF 80 INCHES.

2. WALKS AND SIDEWALKS

A. WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", AND SHALL BE A MINIMUM OF 48 INCHES IN WIDTH.

B. SURFACES WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

C. SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT OR GREATER SHALL BE SLIP-RESISTANT.

D. SURFACE CROSS SLOPES SHALL NOT EXCEED 1:48 (CBC 11B-403.3).

E. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN THE GRATING SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

F. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". WHEN CHANGES DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVELS NOT EXCEEDING 1/4" MAY BE VERTICAL.

G. WHEN CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS OR RAMPS AS REQUIRED.

H. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60" SQUARE AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48" WIDE BY 44" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. SUCH WALKS SHALL EXTEND 24" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.

J. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 5%, IT MUST COMPLY WITH THE PROVISIONS FOR PEDESTRIAN RAMPS (PER 2013 CBC 11B-405).

K. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS NOT EXCEEDING 400 FEET.

3. ENTRANCES AND DOORWAYS

A. PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE DISABLED.

B. NOT USED.

C. ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE "ISA" SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS AS REQUIRED VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

D. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND ARE IN THE PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

E. HAND ACTIVATED DOOR HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR (CBC 11B-404.2.7).

F. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL BE A MINIMUM 60" SQUARE IN THE DIRECTION OF THE DOOR SWING AND A MINIMUM 44" SQUARE OPPOSITE THE DIRECTION OF DOOR SWING (48" IF THE DOOR HAS BOTH LATCH AND CLOSER). THE SQUARES SHALL BE MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. SEE NOTE I BELOW FOR STRIKE SIDE REQUIREMENTS.

G. NOT USED.

H. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS AND THE PRIMARY ENTRANCE TO THE DWELLING UNIT.

I. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED NO GREATER THAN 1:2.

J. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT SLIDING AND POCKET DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

K. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR EXTERIOR DOORS AND 5 LBS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING, BUT NOT TO EXCEED 15 LBS MAX.

L. EXIT DOORS MUST OPEN FROM THE INSIDE WITHOUT A KEY, OR ANY SPECIAL KNOWLEDGE OR EFFORT. EXIT DOORS FROM BUILDINGS OR ROOMS SERVING 10 OR FEWER OCCUPANTS MAY HAVE A NIGHT LATCH, DEADBOLT OR SECURITY CHAIN, AS LONG AS THE DOORS CAN STILL BE OPENED FROM THE INSIDE WITHOUT A KEY, SPECIAL KNOWLEDGE OR EFFORT. IN ADDITION, THESE DEVICES ARE NOT MOUNTED MORE THAN 48" ABOVE THE FLOOR. MANUALLY OPERATED EDGE BOLTS, SURFACE MOUNTED FLUSH BOLTS AND SURFACE BOLTS ARE PROHIBITED. WHEN EXIT DOORS ARE USED IN PAIRS AND AUTOMATIC FLUSH BOLTS ARE USED, THE DOOR LEAF WITH THE FLUSH BOLT MUST HAVE NO DOORKNOB OR SURFACE MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF MUST NOT REQUIRE MORE THAN ONE OPERATION.

M. EVERY REQUIRED EXIT MUST BE LARGE ENOUGH TO PERMIT A DOOR AT LEAST 3'-0" WIDE BY 6'-8" HIGH. EXIT DOORS SHALL OPEN AT LEAST 90 DEGREES AND PROVIDE A CLEAR WIDTH OF AT LEAST 32".

N. THRESHOLDS AT EXTERIOR DOORS OTHER THAN PRIMARY ENTRANCES SHALL BE NO HIGHER THAN 1/2". SUCH THRESHOLDS SHALL BE BEVELED NO GREATER THAN 1:2.

O. THE FLOOR LANDING IMMEDIATELY OUTSIDE THE ENTRY MAY BE SLOPED UP TO 1/8" PER FOOT IN THE DIRECTION AWAY FROM THE PRIMARY ENTRANCE FOR DRAINAGE.

P. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, MUST HAVE AT LEAST 48" OF CLEAR SPACE FROM ANY DOOR OPENING INTO THE VESTIBULE WHEN THE DOOR IS OPEN 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN SERIES MUST SWING IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.

4. STAIRWAYS

A. STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE. STAIRWAYS SHALL HAVE INTERMEDIATE HANDRAILS WHERE REQUIRED SUCH THAT ALL PORTIONS OF THE STAIRWAY WIDTH REQUIRED FOR EGRESS CAPACITY ARE WITHIN 30 INCHES OF A HANDRAIL. INTERMEDIATE HANDRAILS SHALL BE SPACED AT EQUAL INTERVALS WITHIN THE WIDTH OF THE STAIRWAY AND BE CONTINUOUS FOR THE ENTIRE LENGTH.

B. HANDRAILS MUST BE 34 TO 38 INCHES ABOVE THE NOSING OF THE TREADS AND MUST EXTEND IN THE DIRECTION OF THE STAIR RUN FOR AT LEAST 12" BEYOND THE TOP NOSING AND 12" PLUS THE TREAD WIDTH BEYOND THE BOTTOM NOSING.

C. NOT USED.

D. ENDS SHALL BE RETURNED OR SHALL TERMINATE IN A NEWEL POST OR SAFETY TERMINAL.

E. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2-INCH BETWEEN THE WALL AND THE HANDRAIL.

F. THE HANDGRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4-INCHES NOR MORE THAN 1 1/2-INCHES IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE AND SHALL HAVE A SMOOTH SURFACE WITH NO SHARP OR ABRASIVE CORNERS AND ALL EDGES MUST HAVE A MINIMUM 1/8" RADIUS.

G. THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR THE FULL WIDTH OF THE TREAD AT LEAST 2-INCHES WIDE PLACED PARALLEL TOAND NOT MORE THAN 1-INCH FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

H. WHERE STAIRWAYS OCCUR OUTSIDE A BUILDING, THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2-INCHES WIDE AND PLACED PARALLEL TO AND NOT MORE THAN 1-INCH FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIP SHALL BE ACCEPTABLE.

I. ALL TREAD SURFACES SHALL BE SLIP RESISTANT.

J. TREADS SHALL HAVE A SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES, AND NO ABRUPT EDGES AT THE NOSING (LOWER FRONT EDGE).

K. NOSING SHALL NOT PROJECT MORE THAN 1-1/4 INCH PAST THE FACE OF THE RISER BELOW.

L. NOT USED.

M. STAIR RISERS SHALL BE SOLID PER CBC 11B-504.

5. SANITARY FACILITIES

A. WHEELCHAIR ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WHEN LOCATED AT THE END AND 34-INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITION AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

B. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT.

C. WHERE URINALS ARE PROVIDED AT LEAST ONE WITH A RIM PROJECTING A MINIMUM OF 14-INCHES FROM THE WALL AND AT A MAXIMUM OF 17-INCHES ABOVE THE FLOOR SHALL BE PROVIDED.

D. URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT.

E. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED.

F. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

G. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM GLASS EDGE NOT MORE THAN 40-INCHES ABOVE THE FLOOR.

H. LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40-INCHES FROM THE FLOOR.

I. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL OR PARTITION WITHIN 7" TO 9" TO CENTERLINE FROM THE FRONT EDGE OF THE TOILET SEAT, MOUTED BELOW THE GRAB BAR, AT A MINIMUM HEIGHT OF 19 INCHES, AND 36 INCHES MAXIMUM TO THE FAR EDGE FROM THE REAR WALL. DISPENSERS SHALL PERMIT CONTINUOUS FLOW AND NOT CONTROL DELIVERY (CBC 11B-604.7).

J. GRAB BARS, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LB. LOAD.

K. GRAB BARS:
1. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACE OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
2. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2".
3. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
4. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
5. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

6. SWITCHES CONTROLS AND ELECTRICAL OUTLETS

A. RECEPTACLE OUTLETS SHALL BE 15" MIN ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE BOX PER CBC 11B-308.1.1.

B. SWITCHES SHALL BE 48" MAX. ABOVE THE FINISHED FLOOR TO THE TOP OF THE BOX (11B-308.1.2).

C. IF REACH IS OVER AN OBSTRUCTION (FOR EXAMPLE, A BASE CABINET) BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" FOR FORWARD APPROACH, OR 46" FOR SIDE APPROACH PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. THE OBSTRUCTION MAY NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH THE CONTROL.

D. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.

E. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED THEY SHALL ACTIVATE A MEANS OF WARNINGTHE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.

GENERAL NOTES

1. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF MVE INSTITUTIONAL INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART FOR ANOTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MVE INSTITUTIONAL INC.

2. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, MVE INSTITUTIONAL INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS MVE INSTITUTIONAL INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

3. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

4. FIRE SAFETY DURING CONSTRUCTION AND THE DURATION OF THIS CONTRACT:
A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH 2013 CALIFORNIA FIRE CODE TITLE 24, PART 9, CHAPTER 33.

B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410.

C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH SECTION 1412.

D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.

E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF SECTIONS 1405, 1411, 1413, AND 1415.

G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

5. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

6. STATEMENT (TITLE 24, PART 6): NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE: THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

ENVELOPE MANDATORY MEASURES:

A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF [TITLE 24, PART 2, CALIFORNIA BUILDING CODE, SECTIONS 719 AND 2603.]

C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.

D. SITE CONSTRUCTED DOORS, AND WINDOWS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(a)1.

F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.

G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

7. INSPECTOR OF RECORD REQUIREMENTS: A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8. B. INSPECTOR SHALL BE CERTIFIED AS A CLASS [3] INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

8. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

9. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CCD APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

10. GRADING PLANS, DRAINAGE IMPRPOVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIROMENTAL HEALTH CONCIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.

12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES. ALL ENGINEERING SHALL COMFORM WITH ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION INCLUDING ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS.

13. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WORK.

14. ALL DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY UNITS, CENTERLINE OF COLUMNS AND BEAMS, OR FACE OF STUDS, UNLESS OTHERWISE NOTED. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE SLAB OR TOP OF INTERIOR PAVING UNLESS NOTED OTHERWISE. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES UNLESS NOTED OTHERWISE.

15. THE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH INSTALLATION OF CIVIL, STRUCTURAL MECHANICAL, PLUMBING, AND ELECTRICAL WORK. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THE ARCHITECT'S AND THE CONSULTING ENGINEER'S DRAWINGS AND SPECIFICATIONS THAT WOULD CAUSE A CONFLICT, IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.

16. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING ABBREVIATIONS OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

17. DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL SIMILAR CASES UNLES SPECIFICALLY INDICATED OTHERWISE.

18. ALL RUBBISH AND DEBRIS RESULTING FROM DEMOLITION AND/OR NEW WORK SHALL BE DISPOSED OF OFF-SITE AND SHALL NOT BE ALLOWED TO ACCUMULATE.

19. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SECTION 013000 OF SPECIFICATIONS AND AS REQUIRED BY INDIVIDUAL SPECIFICATION SECTIONS.

20. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL. REQUEST FOR SUBSTITUTION SHALL BE IN ACCORDANCE WITH SECTION 016000 OF SPECIFICATIONS.

21. ALL METAL FRAMING MEMBERS SHALL BE SO ARRANGED AND SPACED AS TO PERMIT INSTALLATION OF PIPE CONDUITS AND DUCT-WORK WITH A MINIMUM OF CUTTING. SHAFT WALLS SHALL BE PROVIDED WITH NECESSARY FRAMES, BRACING, AND SEALANT AROUND THE OPENING.

22. OFFSET STUDS WHERE REQUIRED SO THAT FINISH WALL SURFACE WILL BE FLUSH.

24. DOORS IN RATED WALLS SHALL CONSIST OF SELF-CLOSING, SELF-LATCHING ASSEMBLIES WITH SMOKE AND DRAFT SEALS AT HEAD AND JAMBS. DOOR ASSEMBLY RATINGS SHALL BE AS INDICATED ON DOOR AND ACTIVATED BY SMOKE DETECTORS.

25. INSTALL METAL CORNER BEADS AT ALL EXPOSED GYPSUM BOARD EDGES INSTALL CASING BEADS WHEREVER GYPSUM BOARD, PLASTER, ETC. ABUTS DISSIMILAR FINISH MATERIAL AND PROVIDE SEALANT AS REQUIRED.

26. GYPSUM BOARD SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE AT ALL COLUMNS AND EXTERIOR PERIMETER WALLS UNLESS OTHERWISE NOTED. WELD FURRING CHANNELS TO STEEL COLUMN PRIOR TO FIRE PROOFING WHEN REQUIRED.

27. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, STAIR RAILINGS, TOILET ROOM ACCESSORIES AND PARTITIONS, AND OF ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT.

28. ALL GLAZING SHALL COMPLY WITH THE CONSUMER PRODUCT SAFETY COMMISSION REQUIREMENTS (C.P.S.C.), CFC, AND CBC.

29. CONTACT BETWEEN DISSIMILAR METAL SHALL BE PROTECTED.

30. ALL DOOR SIZES SHOWN ON DOOR SCHEDULE ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS, ETC. SHALL BE TAKEN OFF DOOR. ALL DOORS AND FRAME SHALL BE REINFORCED WHERE REQUIRED FOR CLOSERS, STOPS, AND HARDWARE.

31. ROOFING SYSTEM SHALL BEAR U.L. LISTING AS A CLASS "A" SYSTEM. ALL MANUFACTURED MATERIALS USED SHALL BEAR THE APPROPRIATE U.L. LABEL.

32. ALL WOOD TRIM, SPACER, FILLER, ETC., THROUGHOUT JOB SHOULD BE FIRE TREATED.

33. INSPECTION AND TESTING LABORATORY MUST BE IN THE EMPLOY OF THE OWNER, NOT THE CONTRACTOR.

34. MINIMUM HEADROOM CLEARANCE AT STAIRS SHALL BE 6'-8" MEASURED VERTICALLY FROM A PLANE PARALLEL AND TANGENT TO THE TREAD NOSING TO THE SOFFIT ABOVE AT ALL POINTS.

35. ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEGE. LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.

36. EXIT SIGNS SHALL HAVE 6" MINIMUM HEIGHT LETTERS AND SHALL CONFORM TO SECTION 1012 OF THE CALIFORNIA BUILDING CODE.

37. FURNISH AND INSTALL ACCESS DOORS, FIRE DAMPERS, ETC. IN CEILING AND WALL CONSTRUCTION LOCATED AS REQUIRED BY INSTALLATION OF MECHANICAL PLUMBING, AND ELECTRICAL WORK AND AS APPROVED BY THE ARCHITECT. PROVIDE RATED ASSEMBLIES IN RATED WALLS AND CEILINGS AND SHALL BE APPROVED BY BUILDING INSPECTOR PRIOR TO INSTALLATION.

38. FURNISH AND INSTALL EMERGENCY LIGHTING AS SPECIFIED AND INDICATED BUT IN NO CASE SHALL THE LIGHT VALUE BE LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL IN ALL EXIT CORRIDORS AND STAIR SHAFTS (CBC SECTION 1006).

39. THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5' OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DECEND UNLESS A PERMIT IS OBTAINED FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT.

40. THE CONSTRUCTION OR DEMOLITION OF ANY BUILDING, STRUCTURE, SCAFFOLDING OR FALSEWORK MORE THAN 3 STORIES OR 36' IN HEIGHT REQUIRES A PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

41. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 18" OF THE ADJACENT FLOOR SHALL BE GLASS APPROVED FOR IMPACT HAZARD.

42. ALL LIGHT GAUGE METAL STUDS AND BRACING SHALL COMPLY WITH 2013 CALIFORNIA BUILDING CODE.

43. INSTALLATION OF SHORING, UNDERPINNING, AND/OR SLOT CUTTING EXCAVATIONS SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION AND APPROVAL OF THE FOUNDATION ENGINEER.

44. ALL CONSTRUCTION SHALL PERFORMED IN ACCORDANCE WITH THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.

45. DIMENSIONS AND CONDITIONS AT THE JOB SITE SHALL BE VERIFIED BY ALL CONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS TO THE OWNER SINCE PROPOSALS MUST TAKE INTO CONSIDERATION ALL SUCH CONDITIONS THAT MAY AFFECT THE WORK. DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITION SHALL BE REPORTED TO THE ARCHITECT. REVISED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED BY THE OWNER PRIOR TO THE INSTALLATION OF ANY WORK.

46. CONTRACTORS SHALL PROVIDE AND INSTALL ALL CONCRETE HOUSEKEEPING PADS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, AS REQUIRED.

47. ALL GYPSUM WALL BOARD TO BE 5/8" THICK TYPE 'X' UNLESS OTHERWISE NOTED OR REQUIRED FOR SPECIFIC WALL CONSTRUCTION.

48. INSULATION REQUIRED (PER FED. SPEC. HH-1-521E, TYPE III - FIRE RESISTANCE RATED WHERE EXPOSED IN THE EXTERIOR WALL AT THE CEILING PLENUM): ROOF: A. R-30, U.N.O. EXTERIOR WALLS: B. CONCRETE WALLS THEREFORE INSULATION NOT REQUIRED.

49. SUSPENDING CEILING FRAMING SYSTEMS ARE TO BE DESIGNED FOR LATERAL FORCES (CP-0.30 AND WP (MIN) =4SPF) (TABLE 25-A).

50. PROVIDE TEMPERED GLASS AT LOCATIONS REQUIRED BY CBC SECTION 2406 AND BY OTHER APPLICABLE CODE.

51. NOT USED

52. ROOF DRAINS DISCHARGING WATER MUST BE CONDUCTED UNDER THE SIDEWALK

53. DOORS SHALL NOT PROJECT MORE THAN 7 INCHES INTO THE REQUIRED CORRIDOR WIDTH WHEN FULLY OPENED OR MORE THAN ONE HALF INTO THE REQUIRED WIDTH WHEN IN ANY POSITION. (CBC SECTION 1005.7.1)

54. PUBLIC HALLWAYS AND EXIT COURT PASSAGEWAYS TO HAVE 7'-0" CLEAR HEIGHT TO LOWEST PROJECTION. (CBC SEC. 1005.3)

55. OCCUPANCY LOAD SIGNS SHALL BE POSTED IN EACH CLASSROOM, ASSEMBLY ROOM, OR SIMILAR PURPOSE ROOM, HAVING AN OCCUPANT LOAD OF 50 OR MORE.

56. DUCT PENETRATIONS THROUGH PROTECTIVE ELEMENTS OF FIRE RATED CORRIDOR WALLS SHALL BE PROTECTED WITH A COMBINATON FIRE SMOKE DAMPERS PER CBC SECTION 714.

57. NO CHANGES ARE TO BE MADE ON THESE PLANS WITHOUT THE KNOWLEDGE OR CONSENT OF THE ARCHITECT/ENGINEER WHOSE SIGNATURE APPEARS HEREON.

58. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

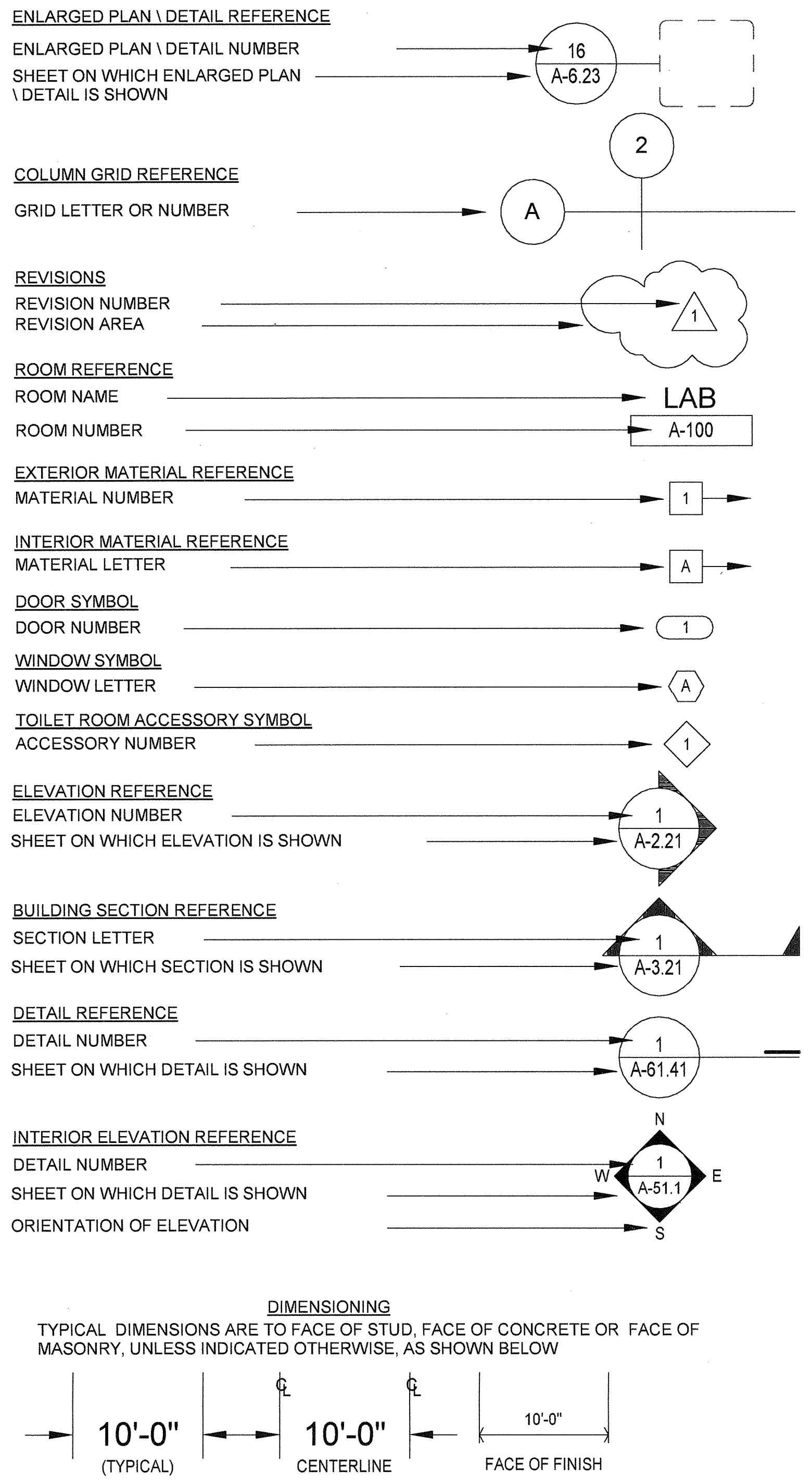
59. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.

60. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WORK.

61. ALL DIMENSIONS ARE FACE OF CONCRETE, FACE OF CONCRETE MASONRY UNITS, CENTERLINE OF COLUMNS & BEAMS, OR FACE OF STUDS, UNLESS NOTED OTHERWISE. (NOTE THAT SOME CONCRETE COLUMNS ARE NOT LOCATED ON CENTER OF GRIDLINES) DIMENSIONS ARE TOP OF CONCRETE SLAB OR TOP OF INTERIOR PAVING UNLESS NOTED OTHERWISE.

62. THE PROJECT APPLICANT SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEERING DIVISION FOR ALL PUBLIC IMPROVEMENTS.

SYMBOLS


ENLARGED PLAN \ DETAIL REFERENCE
ENLARGED PLAN \ DETAIL NUMBER
SHEET ON WHICH ENLARGED PLAN \ DETAIL IS SHOWN
16
A-6.23
2
COLUMN GRID REFERENCE
GRID LETTER OR NUMBER
A
REVISIONS
REVISION NUMBER
REVISION AREA
1
ROOM REFERENCE
ROOM NAME
ROOM NUMBER
LAB
A-100
EXTERIOR MATERIAL REFERENCE
MATERIAL NUMBER
1
INTERIOR MATERIAL REFERENCE
MATERIAL LETTER
A
DOOR SYMBOL
DOOR NUMBER
1
WINDOW SYMBOL
WINDOW LETTER
A
TOILET ROOM ACCESSORY SYMBOL
ACCESSORY NUMBER
1
ELEVATION REFERENCE
ELEVATION NUMBER
SHEET ON WHICH ELEVATION IS SHOWN
1
A-2.21
BUILDING SECTION REFERENCE
SECTION LETTER
SHEET ON WHICH SECTION IS SHOWN
1
A-3.21
DETAIL REFERENCE
DETAIL NUMBER
SHEET ON WHICH DETAIL IS SHOWN
1
A-61.41
INTERIOR ELEVATION REFERENCE
DETAIL NUMBER
SHEET ON WHICH DETAIL IS SHOWN
ORIENTATION OF ELEVATION
N
E
S
W
1
A-51.1
DIMENSIONING
TYPICAL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR FACE OF MASONRY, UNLESS INDICATED OTHERWISE, AS SHOWN BELOW
10'-0"
(TYPICAL)
10'-0"
CENTERLINE
10'-0"
FACE OF FINISH

DSA SUPPLEMENTARY CONDITIONS

1. A note that the construction change documents section 4-338 (c) must be signed by all the followings:
-A/E of record
-Owner (Construction change document only)
-SEOR (when applicable)
-Delegated Professional Engineer (when applicable)
-DSA

2. A note that the Project Inspector and testing lab must be Employed by the owner and approved by all the followings:
-A/E of record
-SEOR (when applicable)
-DSA

ABBREVIATIONS

A.B.	ANCHOR BOLT (S)
A.C.	ASPHALT CONCRETE PAVING
ACOUS	ACOUSTIC
AC. T.	ACOUSTICAL TILE
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AGG	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
APT.	APARTMENT
ASPH.	ASPHALT
A.S.T.M.	AMERICAN SOCIETY OF TESTING MATERIALS
@	AT
B.B	BOTTOM OF BEAM
BD.	BOARD
BLK.	BLOCK
BLK'G.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BDRM.	BEDROOM
BR.	BROOM
CAB.	CABINET
CPT.	CARPET
C.B.	CATCH BASIN
CEM.	CEMENT
CEM. PLAS.	CEMENT PLASTER
C	CENTER LINE
CER.	CERAMIC
C.I.	CAST IRON
CIRC.	CIRCULAR
CLG.	CEILING
CLR.	CLEAR
C.M.T.	CERAMIC MOSAIC TILE
COMPC.	COMPOSITION
CONC.	CONCRETE
CONT.	CONTINUOUS
CTSK.	COUNTERSUNK
CU. FT.	CUBIC FEET
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
D.	DRYER
D.F.	DOUGLAS FIR
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
DSP.	DRY STANDPIPE
DUP.	DUPLICATE
DW.	DISHWASHER
DWGS.	DRAWINGS
E.	EAST
EA.	EACH
E.J.	EXPANSION JOINT
ELEVA.	ELEVATOR
ELEV.	ELEVATION
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.W.M.	ELECTRIC WELDED WIRE
MESH	
EXPN.	EXPANSION
EXP.	EXPOSED
EXT.	EXTERIOR
EXTR.	EXTINGUISHER
FHS	FLAT HEAD SCREW
F.A.U.	FORCED AIR UNIT
F.F.	FINISH FLOOR
F.G.	FIXED GLASS
FHWS	FLAT HEAD WOOD
SCREW	
FIN.	FINISH
FIXT.	FIXTURE
FLASH.	FLASHING
FLR	FLOOR
FLR'G.	FLOORING
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.P.	FIRE PLACE
F.S	FLOOR SINK
FREQ.	FREQUENCY
FT.	FEET, FOOT
FTG.	FOOTING
FXC	FIRE EXTINGUISHER &
CABINET	
GA.	GAUGE
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
(STEEL)	
GUN.	GUNITE
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HD	HEAD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
I.	IRON
I.D.	INSIDE DIAMETER
INC.	INCORPORATED
INSUL.	INSULATION
INT	INTERIOR
JT.	JOINT
JST.	JOIST
K.	KITCHEN
LAM.	LAMINATED
LAM. PLAS.	LAMINATED PLASTIC
LAV.	LAVATORY
LT.	LIGHT
LVR.	LOUVER
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MFG.	MANUFACTURE
M.H.	MAN HOLE
MIN.	MINIMUM
MIR.	MIRROR
MTG.	MOUNTING
MTL.	METAL
N.	NORTH
NAT.	NATURAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O/	OVER
O.C.	ON CENTER
O.D.	OVERFLOW DRAIN
OPP.	OPPOSITE
OV.	OVEN
OVHD.	OVERHEAD
PB.	PUSHBUTTON
PC	PULL CHAIN
PL	PLATE
P	PROPERTY LINE
PLAS.	PLASTER
PL. GLS.	PLATE GLASS
PLAST.	PLASTER
PLYWD.	PLYWOOD
PNL.	PANEL
PR.	PAIR
PRCST.	PRECAST
PREFAB.	PREFABRICATED
%	PERCENT
QRY.	QUARRY
QTY.	QUANTITY
RAD.	RADIUS
R.	RISER
R.A.G.	RETURN AIR GRILLE
RD.	ROAD
R.D.	ROOF DRAIN
RDWD.	REDWOOD
RECP.	RECEPTACLE
REF.	REFERENCE
REF.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCEMENT
REQ'D	REQUIRED
RES. FLR.	RESILIENT FLOORING
RET.	RETAINING
RF.	ROOF
RF'G.	ROOFING
RM.	ROOM
RO.	ROUGH
R.O.	ROUGH OPENING
RUB.	RUBBER
R.B.	RUBBER (RESILIENT) BASE
S	SOUTH
S.C.	SOLID CORE
S.D.	STORM DRAIN
SHT.	SHEET
SHT'G	SHEATHING
SIM.	SIMILAR
S&P	SHELF AND POLE
SPECS.	SPECIFICATIONS
SPRKL.	SPRINKLER
SQ. IN.	SQUARE INCH
SQ. FT.	SQUARE FOOT
ST.	STREET
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SIM.	SIMILAR
S4S	SMOOTH FOUR SIDES
T	TREAD
T&B	TOP AND BOTTOM
T.B.	TOP OF BEAM
T.C.	TOP OF CURB
T.C.	TOP OF CONCRETE
T.G.	TOP OF GRATE
TEL	TELEPHONE
TEMP.	TEMPERED
T&G	TONGUE AND GROOVE
THK.	THICK
THRESH.	THRESHOLD
T.O.S.	TOP OF STEEL
T.P.	TOP OF PAVING
T.S.	TOP OF SHEATHING
T.W.	TOP OF WALL
TYP.	TYPICAL
UL	UNDERWRITER'S LABEL
ULT.	ULTIMATE
UNFIN.	UNFINISHED
V.A.T.	VINYL ASBESTOS TILE
VENT.	VENTILATOR
VERT.	VERTICAL
VIT.	VITREOUS
VOL.	VOLUME
V.T.	VINYL TILE
W	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W	WIDE FLANGE (STEEL)
W.G.	WIRE GLASS
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W/O	WITH OUT
WP.	WATERPROOFING
WS	WEATHERSTRIPPING
W.S.P.	WET STANDPIPE
WT.	WEIGHT
YD.	YARD

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA
Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS [illegible] SS [illegible]
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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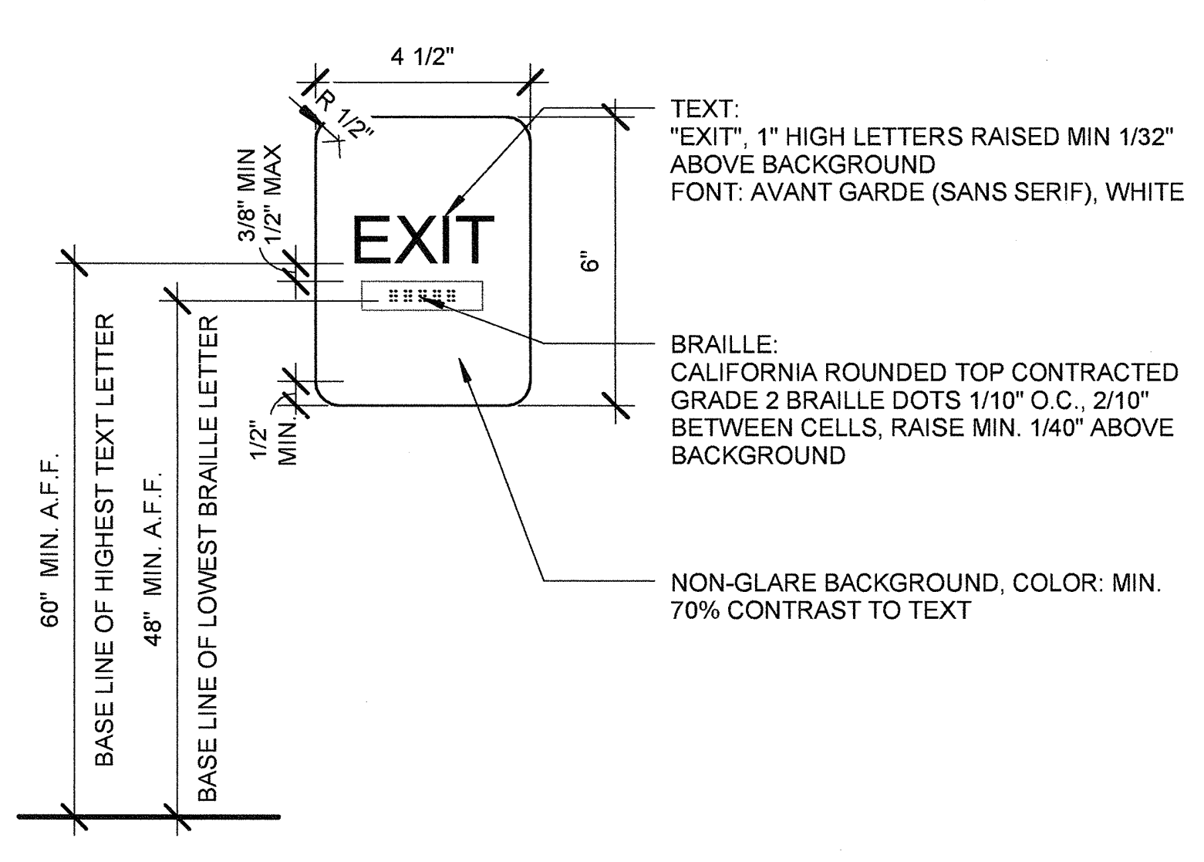
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: 12" = 1'-0"

SHEET NUMBER: _GEN-2
SHEET TITLE:

GENERAL NOTES

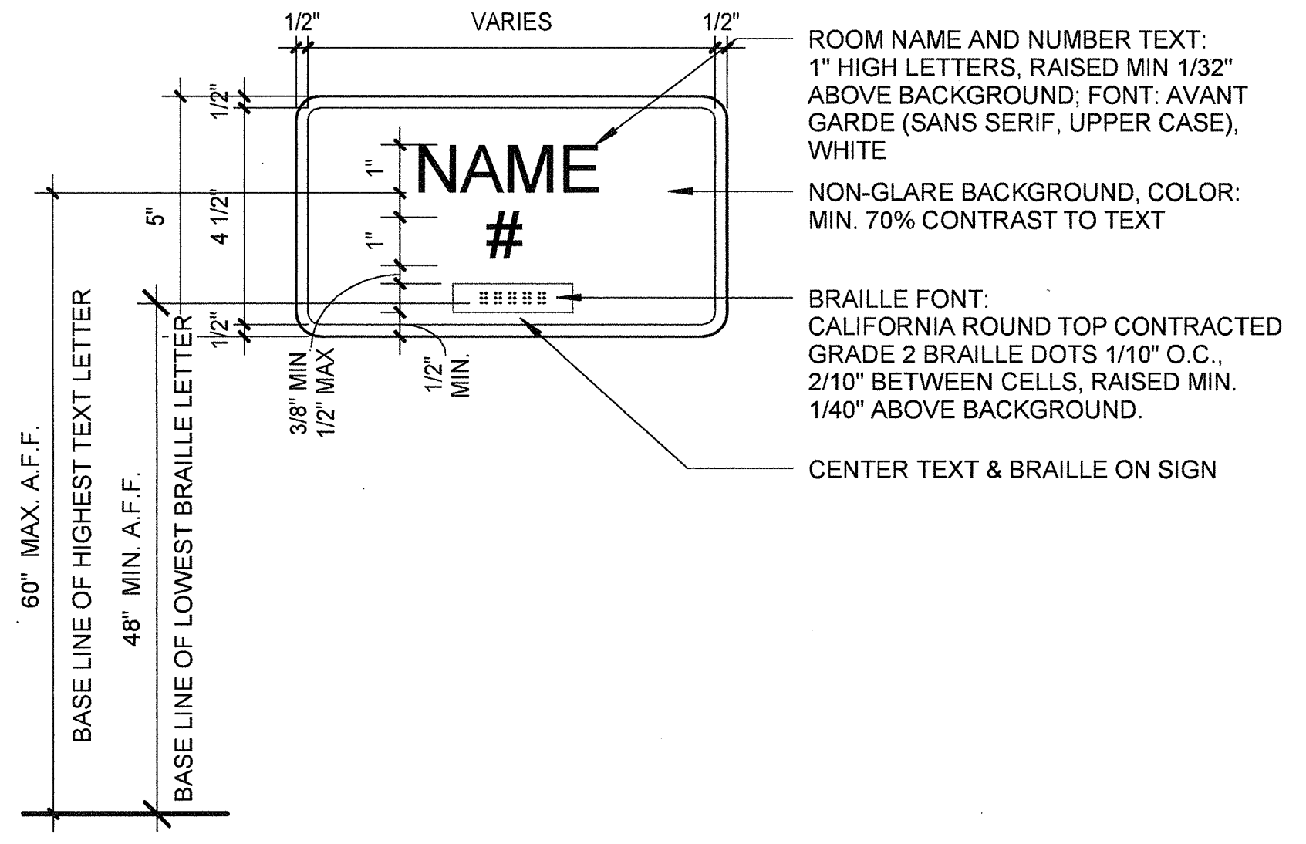
SVA ARCHITECTS
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


4 1/2"
R 1/2"
3/8" MIN
1/2" MAX
EXIT
6"
1/2" MIN.
60" MIN. A.F.F.
BASE LINE OF HIGHEST TEXT LETTER
48" MIN. A.F.F.
BASE LINE OF LOWEST BRAILLE LETTER
TEXT:
"EXIT", 1" HIGH LETTERS RAISED MIN 1/32" ABOVE BACKGROUND
FONT: AVANT GARDE (SANS SERIF), WHITE
BRAILLE:
CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE DOTS 1/10" O.C., 2/10" BETWEEN CELLS, RAISE MIN. 1/40" ABOVE BACKGROUND
NON-GLARE BACKGROUND, COLOR: MIN. 70% CONTRAST TO TEXT

NOTE:
1. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERES.
2. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

TACTILE EXIT SIGN

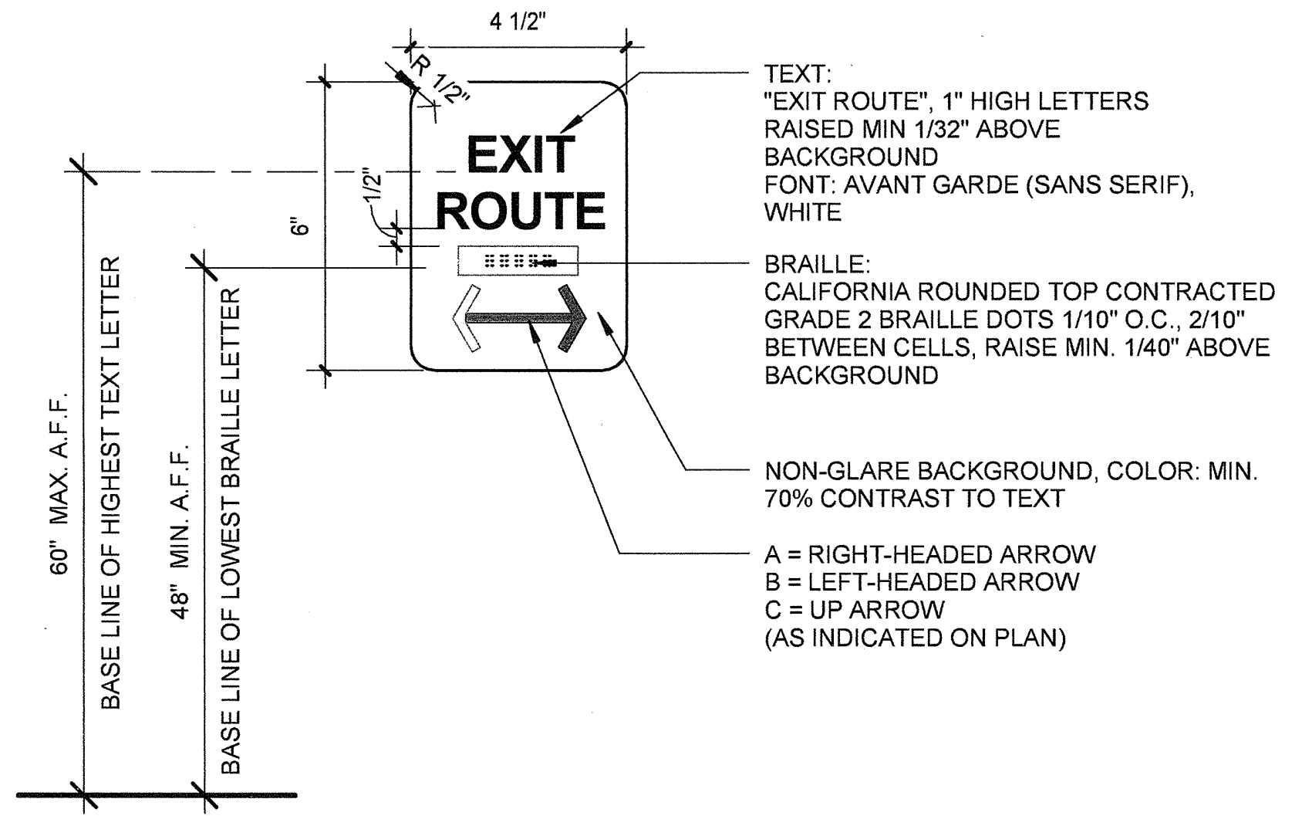
3" = 1'-0" 30


1/2"
VARIES
1/2"
5"
4 1/2"
1/2"
1"
1"
1/2"
NAME
#
3/8" MIN
1/2" MAX
1/2" MIN.
60" MAX. A.F.F.
BASE LINE OF HIGHEST TEXT LETTER
48" MIN. A.F.F.
BASE LINE OF LOWEST BRAILLE LETTER
ROOM NAME AND NUMBER TEXT: 1" HIGH LETTERS, RAISED MIN 1/32" ABOVE BACKGROUND; FONT: AVANT GARDE (SANS SERIF, UPPER CASE), WHITE
NON-GLARE BACKGROUND, COLOR: MIN. 70% CONTRAST TO TEXT
BRAILLE FONT: CALIFORNIA ROUND TOP CONTRACTED GRADE 2 BRAILLE DOTS 1/10" O.C., 2/10" BETWEEN CELLS, RAISED MIN. 1/40" ABOVE BACKGROUND.
CENTER TEXT & BRAILLE ON SIGN

NOTE:
1. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERES. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. PRIMARY ENTRANCES TO RECEIVE ROOM IDENTIFICATION SIGN, SECONDARY ENTRANCES TO HAVE ROOM NUMBER U.N.O., REFER ACCESSIBILITY PLAN AND DOOR SCHEDULE.

ROOM NUMBER SIGN

3" = 1'-0" 23


4 1/2"
R 1/2"
1/2"
6"
EXIT
ROUTE
60" MAX. A.F.F.
BASE LINE OF HIGHEST TEXT LETTER
48" MIN. A.F.F.
BASE LINE OF LOWEST BRAILLE LETTER
TEXT:
"EXIT ROUTE", 1" HIGH LETTERS RAISED MIN 1/32" ABOVE BACKGROUND
FONT: AVANT GARDE (SANS SERIF), WHITE
BRAILLE:
CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE DOTS 1/10" O.C., 2/10" BETWEEN CELLS, RAISE MIN. 1/40" ABOVE BACKGROUND
NON-GLARE BACKGROUND, COLOR: MIN. 70% CONTRAST TO TEXT
A = RIGHT-HEADED ARROW
B = LEFT-HEADED ARROW
C = UP ARROW
(AS INDICATED ON PLAN)

NOTE:
1. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERES. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

TACTILE EXIT ROUTE SIGN

3" = 1'-0" 19

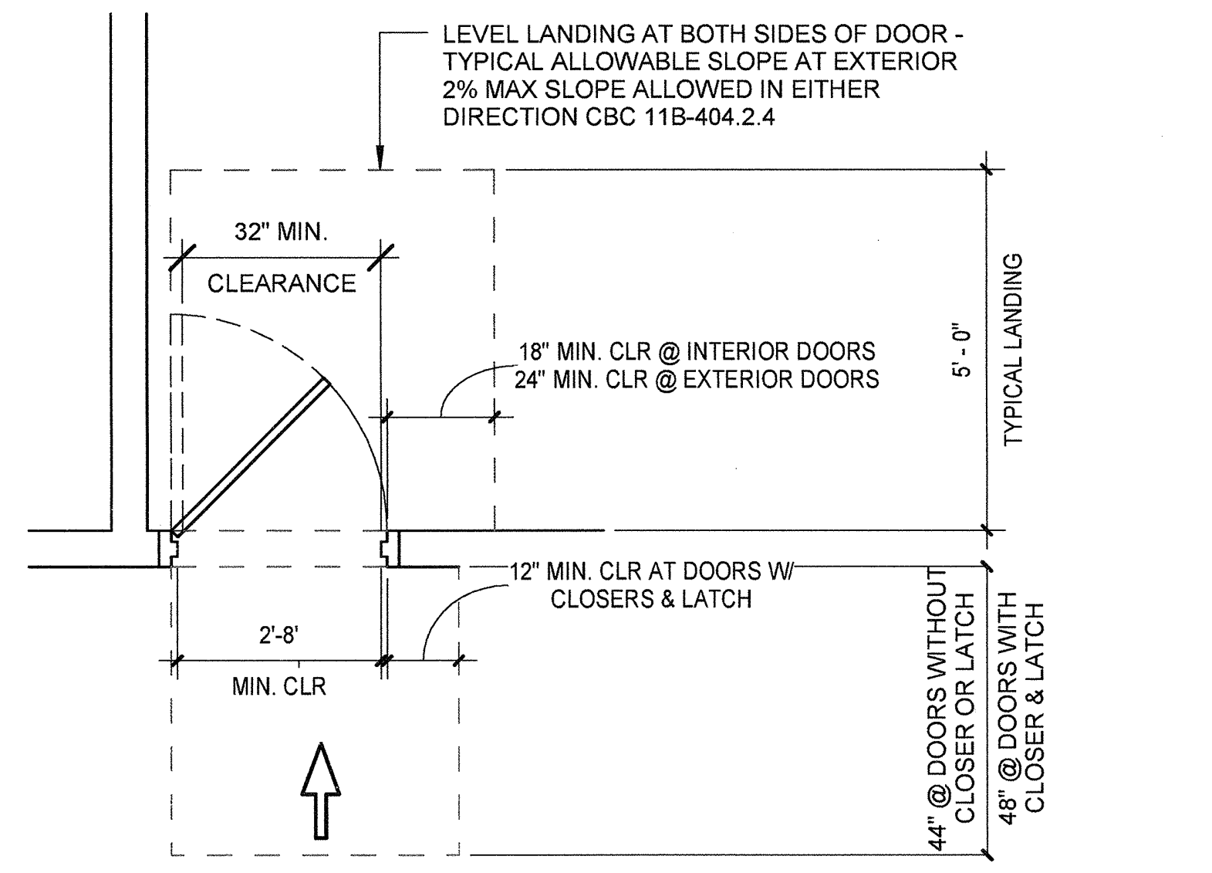

LEVEL LANDING AT BOTH SIDES OF DOOR - TYPICAL ALLOWABLE SLOPE AT EXTERIOR 2% MAX SLOPE ALLOWED IN EITHER DIRECTION CBC 11B-404.2.4
32" MIN.
CLEARANCE
18" MIN. CLR @ INTERIOR DOORS
24" MIN. CLR @ EXTERIOR DOORS
5' - 0"
TYPICAL LANDING
12" MIN. CLR AT DOORS W/ CLOSERS & LATCH
2'-8'
MIN. CLR
44" @ DOORS WITHOUT CLOSER OR LATCH
48" @ DOORS WITH CLOSER & LATCH

FIGURE *11B-404.2.4.1*

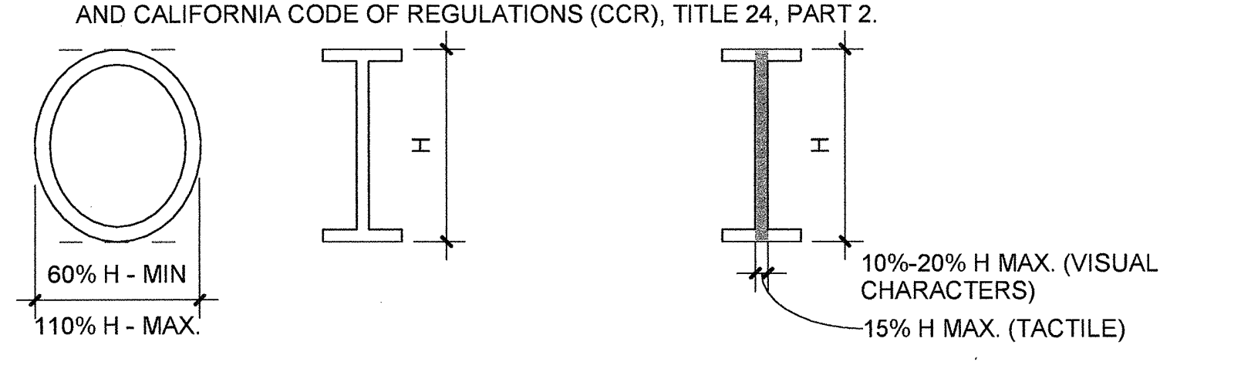
FRONT APPROACH, PUSH SIDE. DOOR PROVIDED WITH BOTH CLOSER AND LATCH TO COMPLY WITH CBC 11B-404.2

DOOR LANDINGS

3/8" = 1'-0" 15

WIDTH TO HEIGHT PROPORTION TEMPLATE

BRAILLE SPACING TEMPLATE PER CALIFORNIA BUILDING CODE (CBC) AND CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 2.

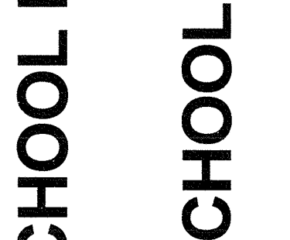


CHARACTER PROPORTIONS

RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

STROKE PROPORTION

STROKE THICKNESS OF THE TACTILE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.



BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) CBC *IIB-703.3*
-DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11 *B-703.3.1.* THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS(CBC *IIB-703.3.1).*

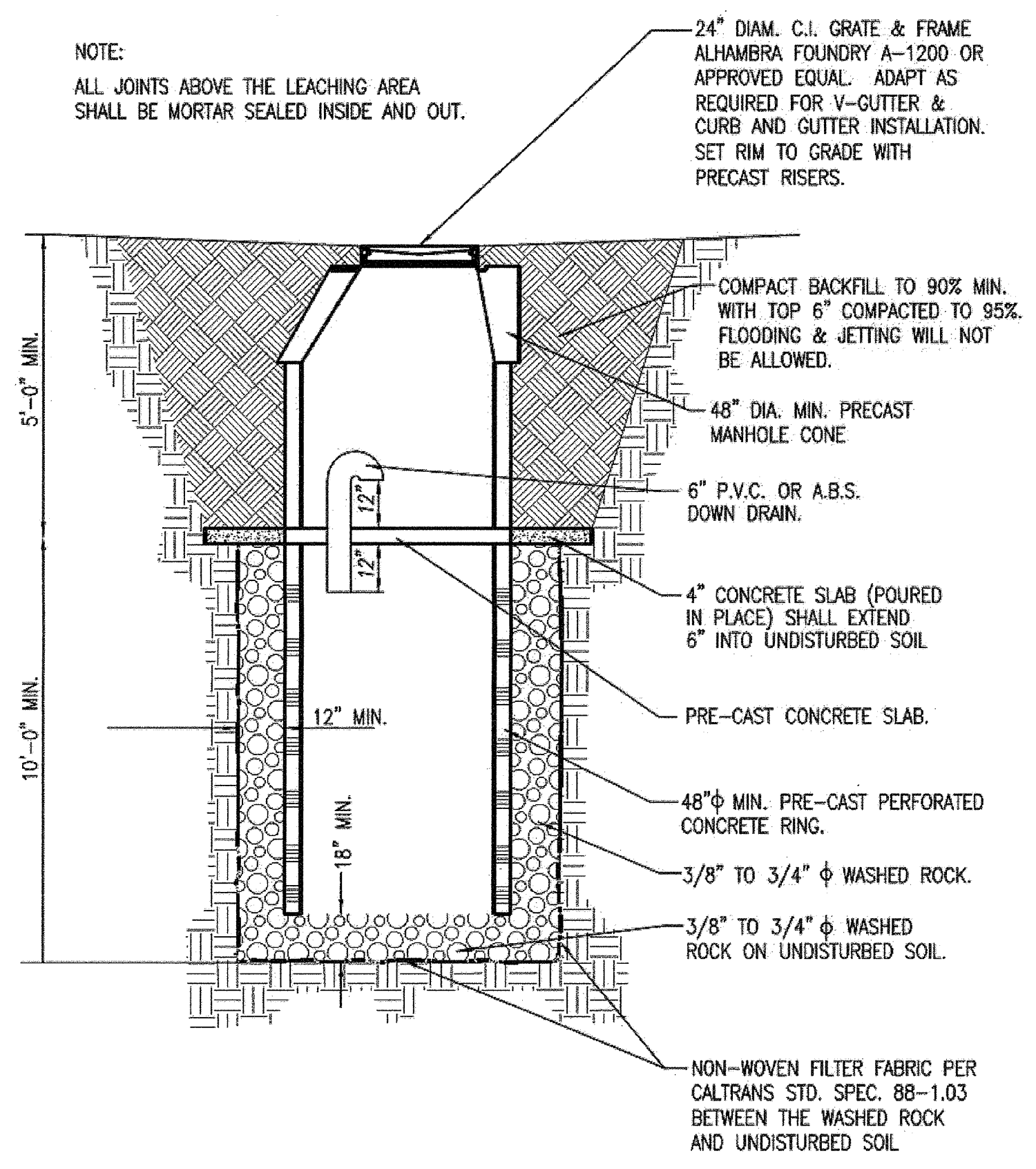
-POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT *IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED.* IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM *AND 1/2 INCH MAXIMUM* FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.CBC *11B-703.3.2*

-INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH *SECTION 11B-703.4. (CBC 11B-703.4)*

TACTILE SIGNAGE TEMPLATES

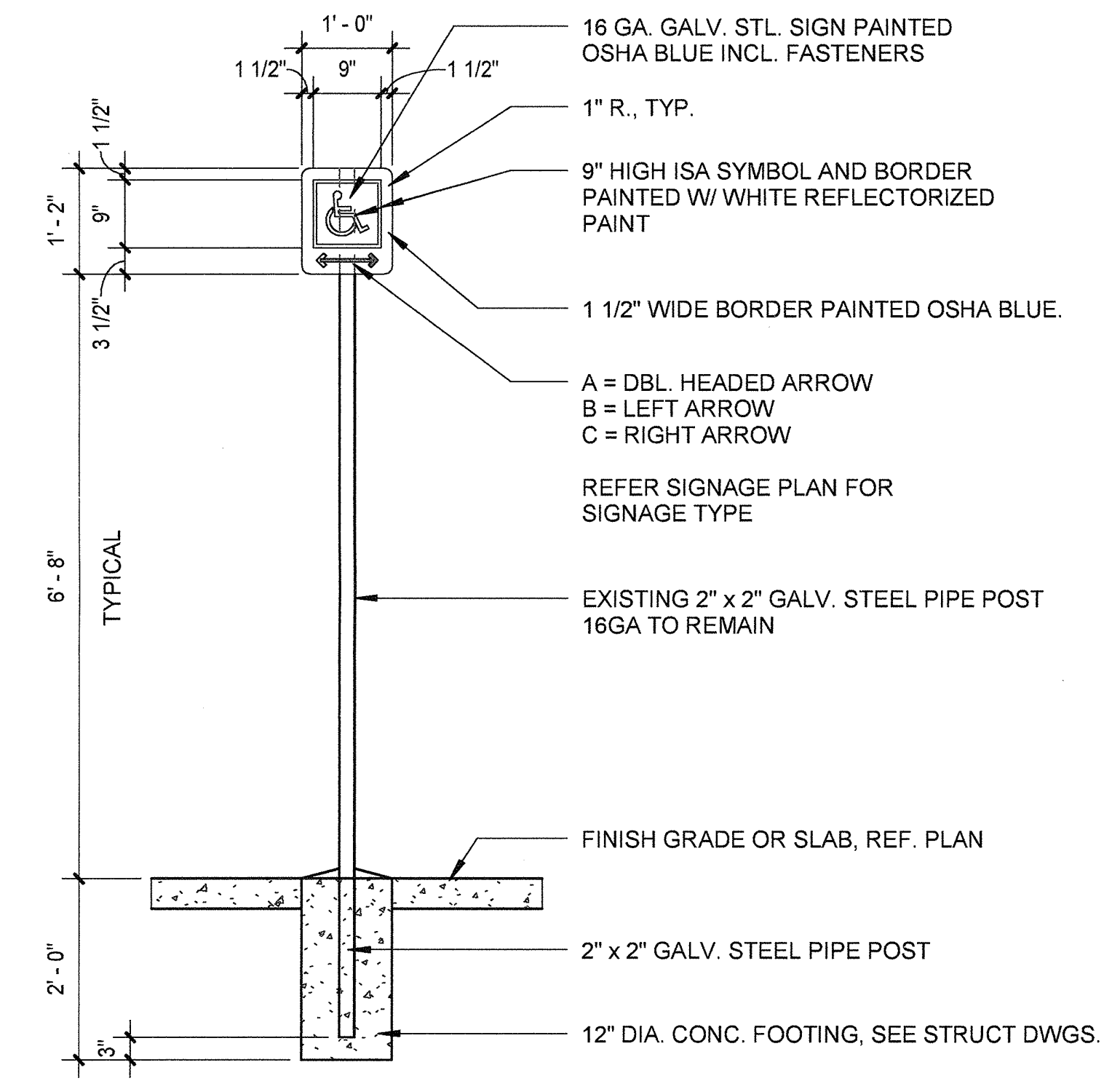
1 : 1 6

NOTE:
ALL JOINTS ABOVE THE LEACHING AREA SHALL BE MORTAR SEALED INSIDE AND OUT.


24" DIAM. C.I. GRATE & FRAME ALHAMBRA FOUNDRY A-1200 OR APPROVED EQUAL. ADAPT AS REQUIRED FOR V-GUTTER & CURB AND GUTTER INSTALLATION. SET RIM TO GRADE WITH PRECAST RISERS.
COMPACT BACKFILL TO 90% MIN. WITH TOP 6" COMPACTED TO 95%. FLOODING & JETTING WILL NOT BE ALLOWED.
48" DIA. MIN. PRECAST MANHOLE CONE
6" P.V.C. OR A.B.S. DOWN DRAIN.
4" CONCRETE SLAB (POURED IN PLACE) SHALL EXTEND 6" INTO UNDISTURBED SOIL
PRE-CAST CONCRETE SLAB.
48"ϕ MIN. PRE-CAST PERFORATED CONCRETE RING.
3/8" TO 3/4" ϕ WASHED ROCK.
3/8" TO 3/4" ϕ WASHED ROCK ON UNDISTURBED SOIL.
NON-WOVEN FILTER FABRIC PER CALTRANS STD. SPEC. 88-1.03 BETWEEN THE WASHED ROCK AND UNDISTURBED SOIL
5'-0" MIN.
10'-0" MIN.
12" MIN.
18" MIN.
12"
12"

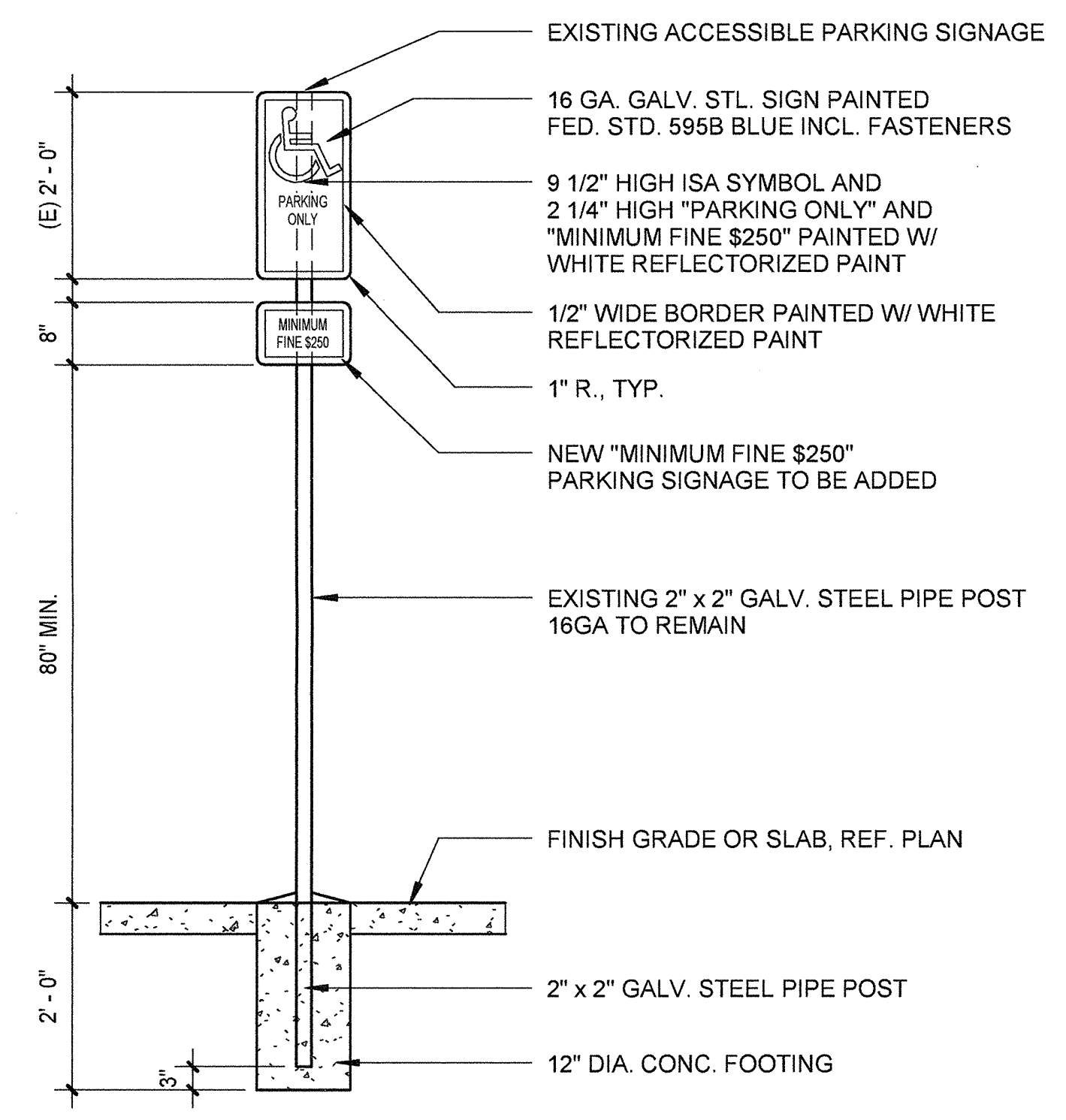
STANDARD DRYWELL DETAIL

3/16" = 1'-0" 28


1' - 0"
1 1/2"
9"
1 1/2"
1' - 2"
1 1/2"
9"
3 1/2"
6' - 8"
TYPICAL
2' - 0"
3"
16 GA. GALV. STL. SIGN PAINTED OSHA BLUE INCL. FASTENERS
1" R., TYP.
9" HIGH ISA SYMBOL AND BORDER PAINTED W/ WHITE REFLECTORIZED PAINT
1 1/2" WIDE BORDER PAINTED OSHA BLUE.
A = DBL. HEADED ARROW
B = LEFT ARROW
C = RIGHT ARROW
REFER SIGNAGE PLAN FOR SIGNAGE TYPE
EXISTING 2" x 2" GALV. STEEL PIPE POST 16GA TO REMAIN
FINISH GRADE OR SLAB, REF. PLAN
2" x 2" GALV. STEEL PIPE POST
12" DIA. CONC. FOOTING, SEE STRUCT DWGS.

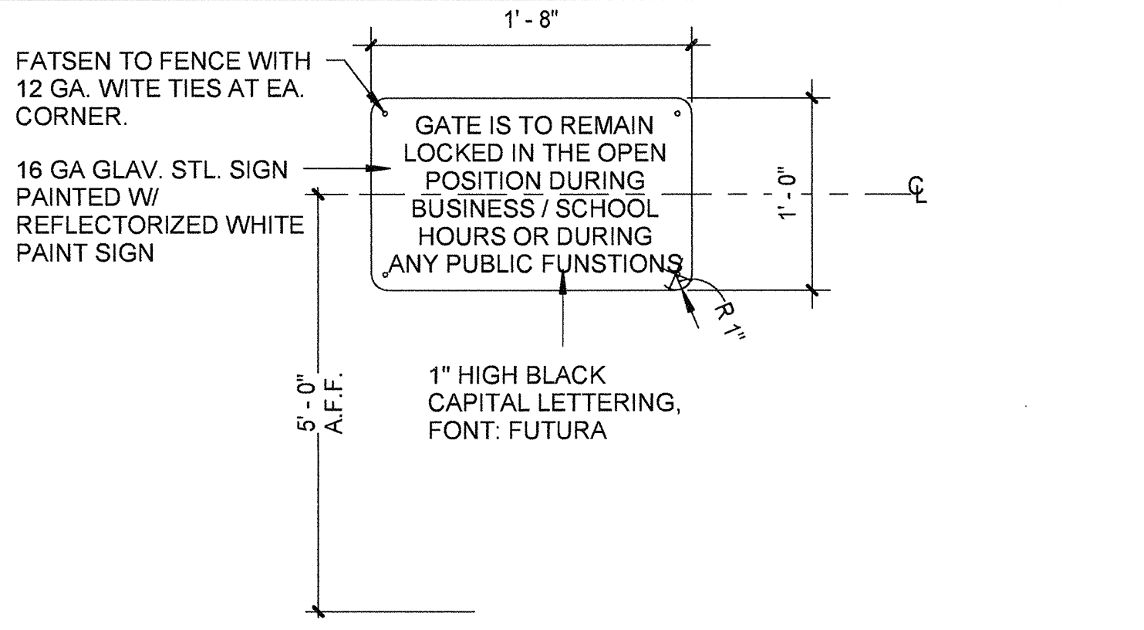
ACCESSIBLE DIRECTIONAL SIGN

1/2" = 1'-0" 22


(E) 2' - 0"
PARKING ONLY
MINIMUM FINE $250
8"
80" MIN.
2' - 0"
3"
EXISTING ACCESSIBLE PARKING SIGNAGE
16 GA. GALV. STL. SIGN PAINTED FED. STD. 595B BLUE INCL. FASTENERS
9 1/2" HIGH ISA SYMBOL AND 2 1/4" HIGH "PARKING ONLY" AND "MINIMUM FINE $250" PAINTED W/ WHITE REFLECTORIZED PAINT
1/2" WIDE BORDER PAINTED W/ WHITE REFLECTORIZED PAINT
1" R., TYP.
NEW "MINIMUM FINE $250" PARKING SIGNAGE TO BE ADDED
EXISTING 2" x 2" GALV. STEEL PIPE POST 16GA TO REMAIN
FINISH GRADE OR SLAB, REF. PLAN
2" x 2" GALV. STEEL PIPE POST
12" DIA. CONC. FOOTING

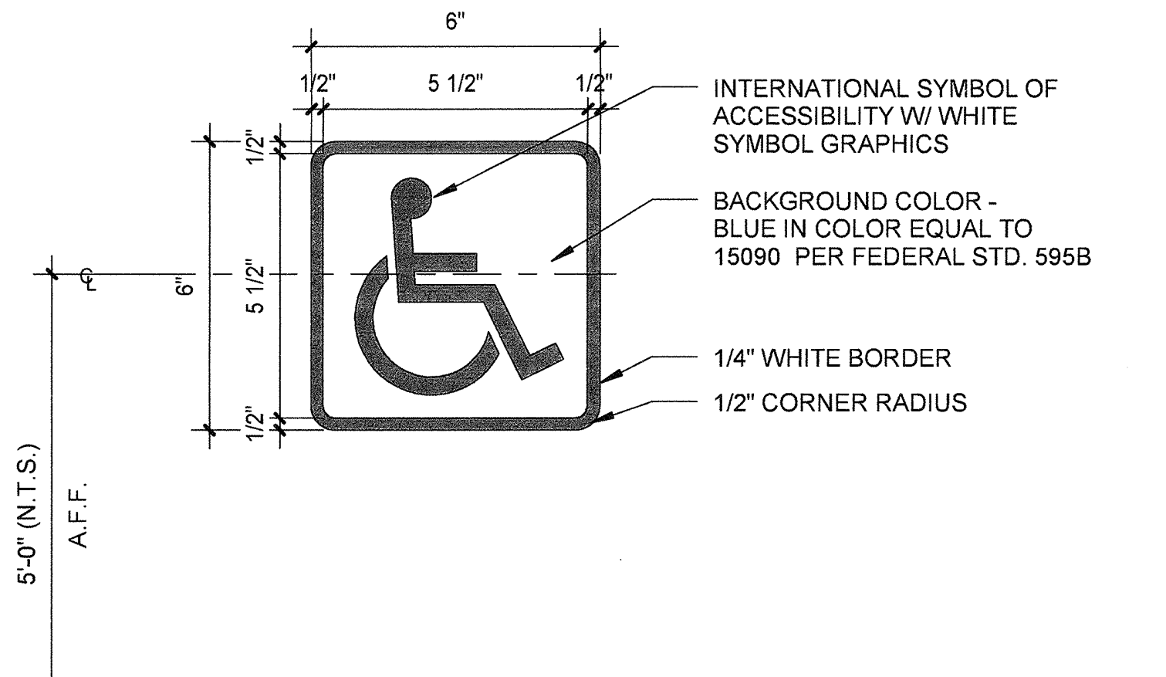
EXISTING ACCESSIBLE PARKING SIGNAGE

1/2" = 1'-0" 18


FATSEN TO FENCE WITH 12 GA. WITE TIES AT EA. CORNER.
16 GA GLAV. STL. SIGN PAINTED W/ REFLECTORIZED WHITE PAINT SIGN
1' - 8"
GATE IS TO REMAIN LOCKED IN THE OPEN POSITION DURING BUSINESS / SCHOOL HOURS OR DURING ANY PUBLIC FUNSTIONS
1' - 0"
R 1"
5' - 0" A.F.F.
1" HIGH BLACK CAPITAL LETTERING, FONT: FUTURA

GATE ACCESS SIGNAGE

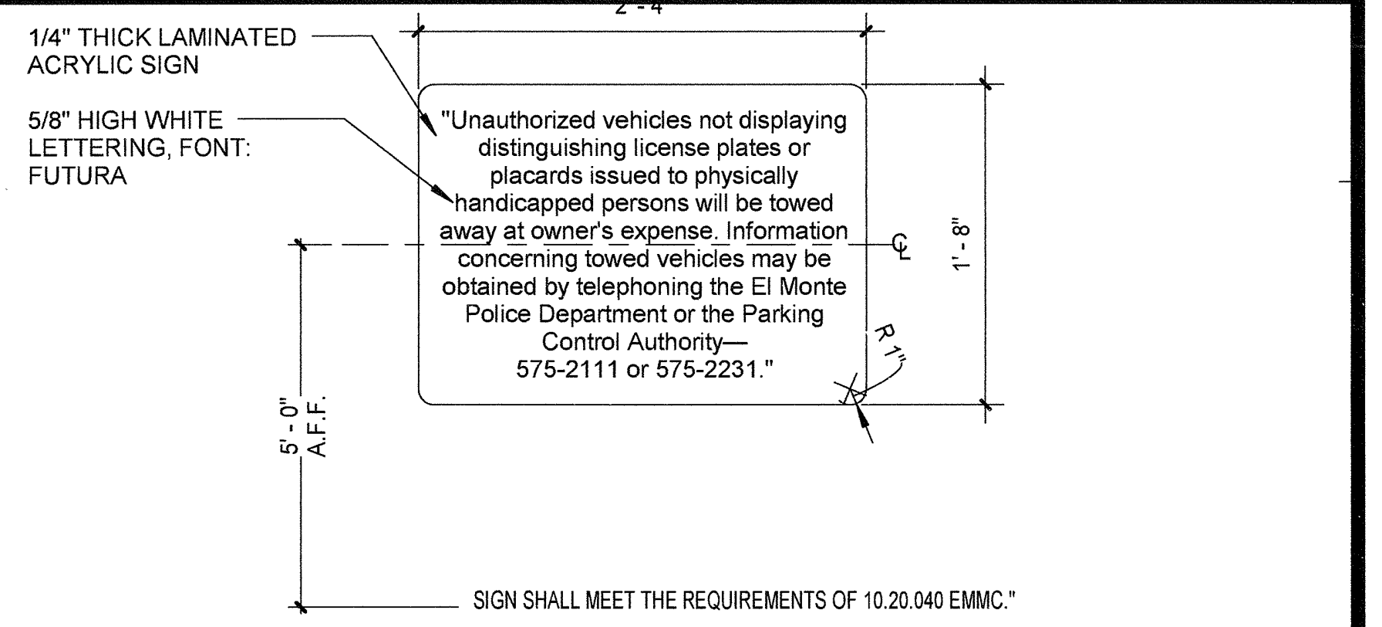
1" = 1'-0" 14


6"
1/2"
5 1/2"
1/2"
6"
5 1/2"
5'-0" (N.T.S.) A.F.F.
INTERNATIONAL SYMBOL OF ACCESSIBILITY W/ WHITE SYMBOL GRAPHICS
BACKGROUND COLOR - BLUE IN COLOR EQUAL TO 15090 PER FEDERAL STD. 595B
1/4" WHITE BORDER
1/2" CORNER RADIUS

NOTE:
PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERES.
PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

ACCESSIBLE ENTRY SIGN

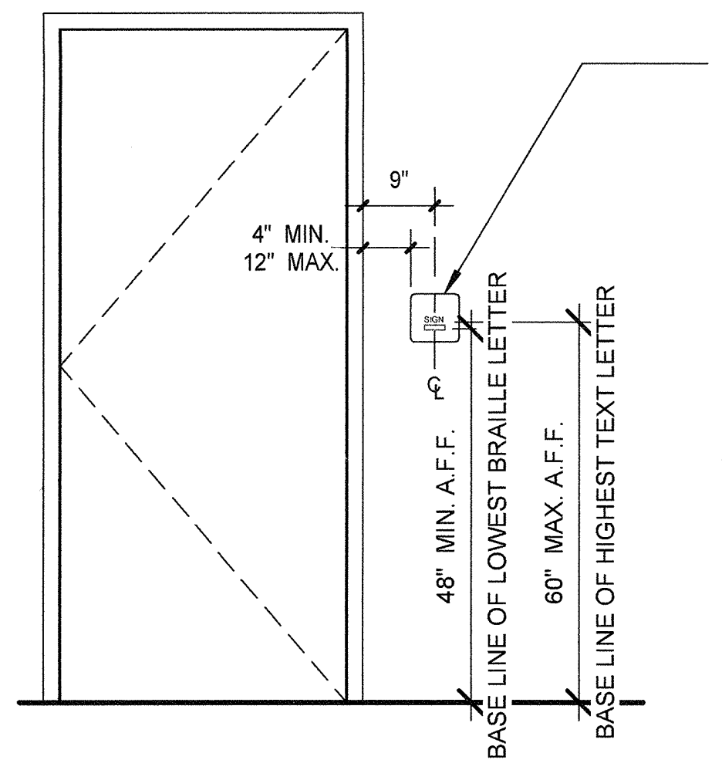
3" = 1'-0" 13


1/4" THICK LAMINATED ACRYLIC SIGN
5/8" HIGH WHITE LETTERING, FONT: FUTURA
2' - 4"
"Unauthorized vehicles not displaying distinguishing license plates or placards issued to physically handicapped persons will be towed away at owner's expense. Information concerning towed vehicles may be obtained by telephoning the El Monte Police Department or the Parking Control Authority— 575-2111 or 575-2231."
1' - 8"
R 1"
5' - 0" A.F.F.

SIGN SHALL MEET THE REQUIREMENTS OF 10.20.040 EMMC."

TOW AWAY SIGN

1" = 1'-0" 5

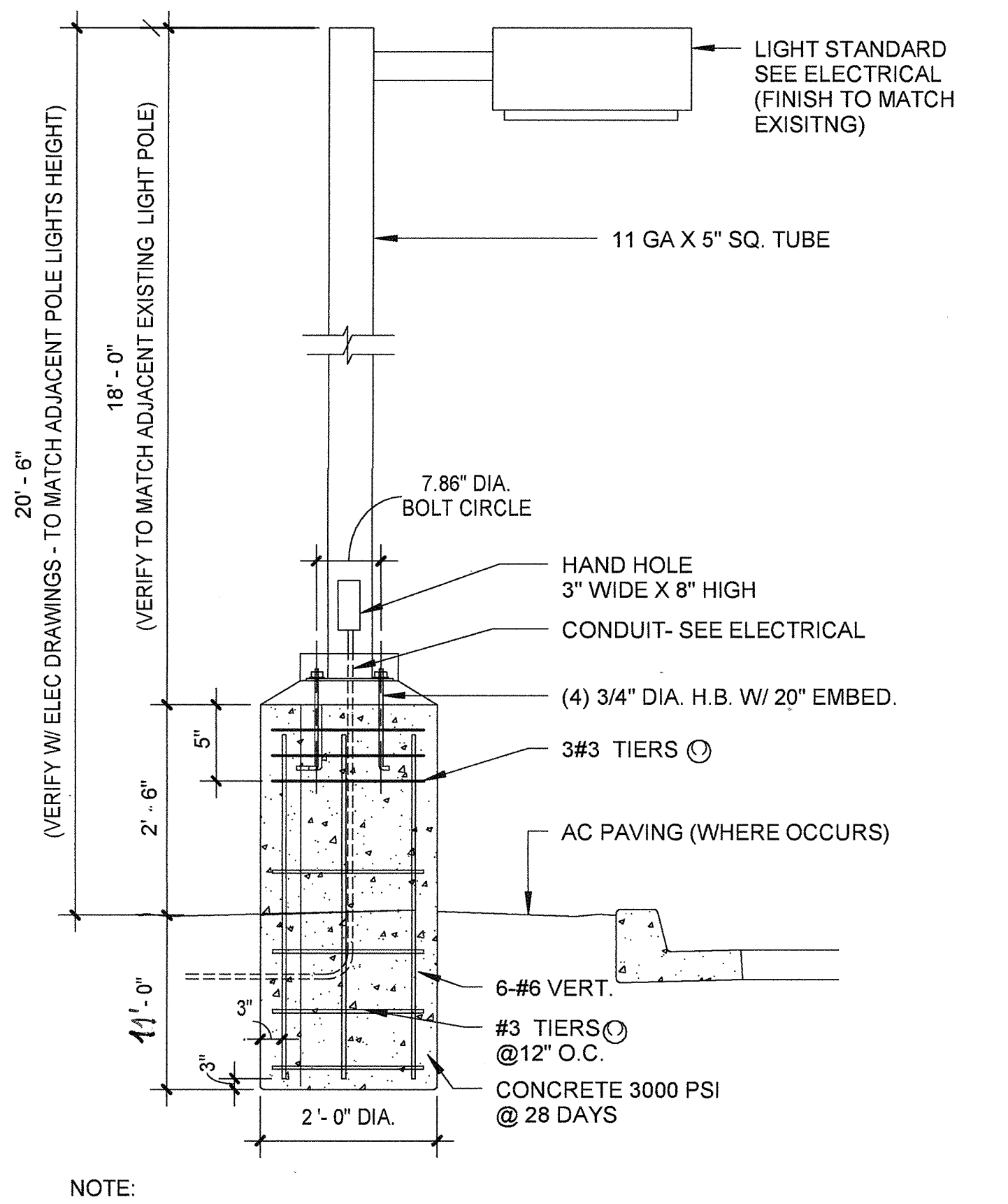

REQUIRED ROOM OR ACCESSIBLE ENTRY SIGNAGE PER DETAILS 19/GEN-3 23/GEN-3 30/GEN-3
9"
4" MIN.
12" MAX.
SIGN
48" MIN. A.F.F.
BASE LINE OF LOWEST BRAILLE LETTER
60" MAX. A.F.F.
BASE LINE OF HIGHEST TEXT LETTER

SEE PLANS AND DOOR SCHEDULES FOR SIGNAGE TYPE AT EACH DOOR

NOTE:
1. AT ALL DOUBLE DOORS, LOCATE SIGNAGE ADJACENT TO JAMB OF INACTIVE LEAF OF DOOR PAIR. PROVIDE 90 DEGREE INHIBITOR TYPE CLOSER ON INACTIVE DOOR.
2. SEE DOOR SCHEDULES FOR TYPE OF DOOR SIGNAGE AT ALL DOORS.
3. SEE REQUIRED ROOM SIGNAGE DETAILS FOR REQUIRED HEIGHT.

DOOR ROOM SIGNAGE

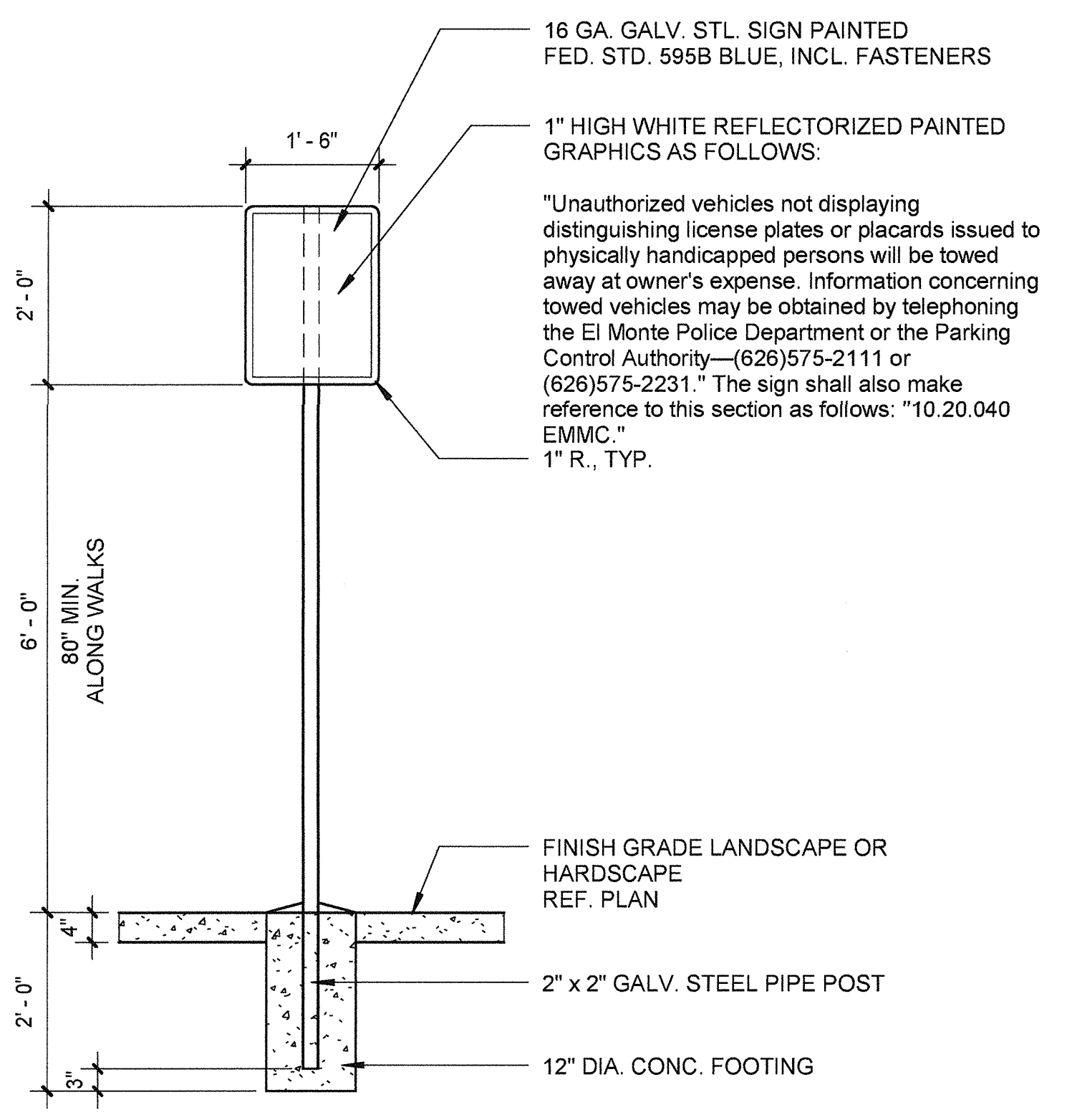
1/2" = 1'-0" 4


LIGHT STANDARD SEE ELECTRICAL (FINISH TO MATCH EXISITNG)
11 GA X 5" SQ. TUBE
20' - 6" (VERIFY W/ ELEC DRAWINGS - TO MATCH ADJACENT POLE LIGHTS HEIGHT)
18' - 0" (VERIFY TO MATCH ADJACENT EXISTING LIGHT POLE)
7.86" DIA. BOLT CIRCLE
HAND HOLE 3" WIDE X 8" HIGH
CONDUIT- SEE ELECTRICAL
(4) 3/4" DIA. H.B. W/ 20" EMBED.
3#3 TIERS
AC PAVING (WHERE OCCURS)
6-#6 VERT.
#3 TIERS @12" O.C.
CONCRETE 3000 PSI @ 28 DAYS
5"
2' - 6"
11' - 0"
3"
3"
2'- 0" DIA.

NOTE:
CONC. POLE BASE MUST NOT EXCEED 6" ABOVE FIN. GRADE AT LANDSCAPED AREA.

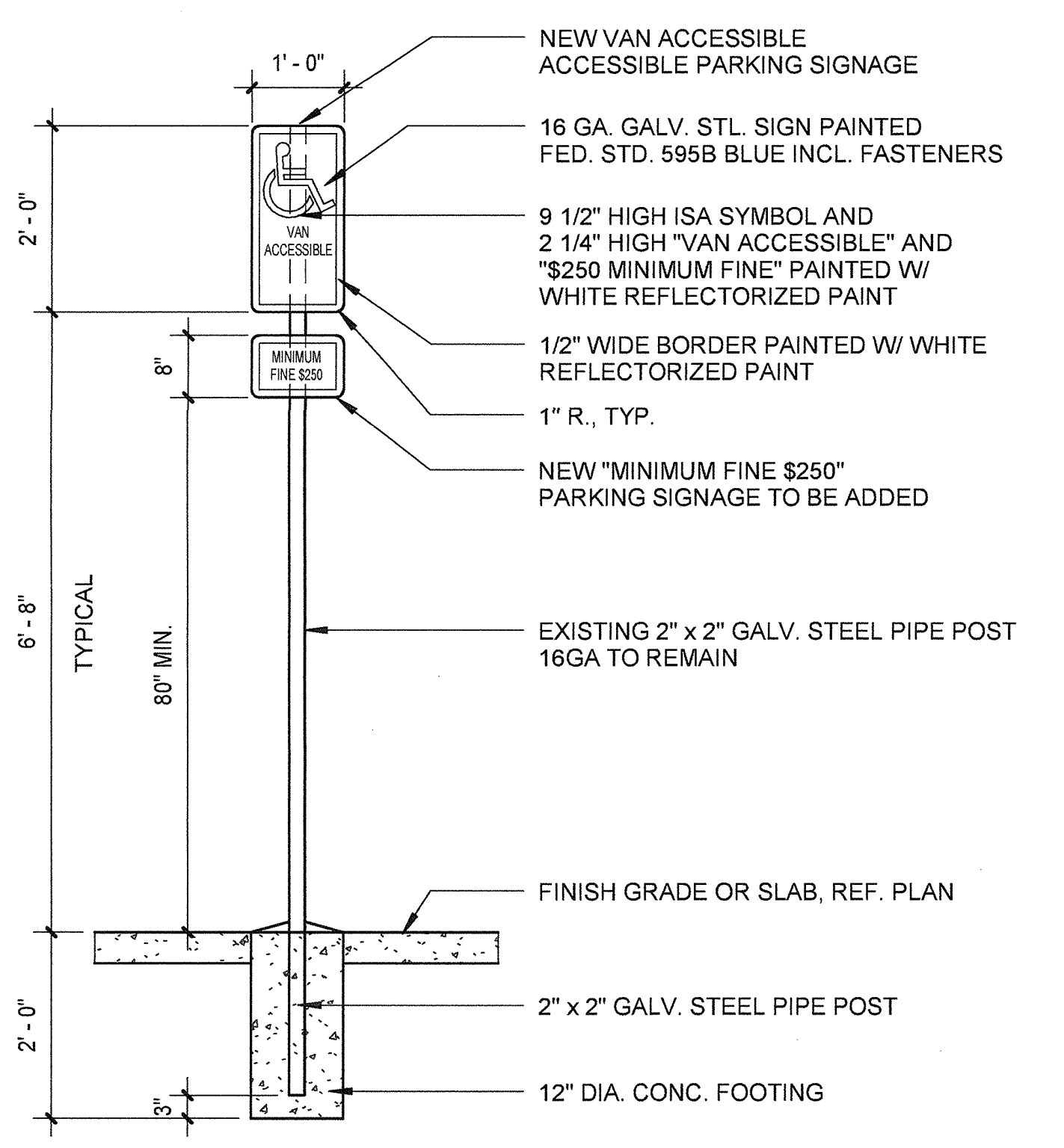
NEW LIGHT POLE BASE

1/4" = 1'-0" 25


16 GA. GALV. STL. SIGN PAINTED FED. STD. 595B BLUE, INCL. FASTENERS
1" HIGH WHITE REFLECTORIZED PAINTED GRAPHICS AS FOLLOWS:
"Unauthorized vehicles not displaying distinguishing license plates or placards issued to physically handicapped persons will be towed away at owner's expense. Information concerning towed vehicles may be obtained by telephoning the El Monte Police Department or the Parking Control Authority—(626)575-2111 or (626)575-2231." The sign shall also make reference to this section as follows: "10.20.040 EMMC."
1" R., TYP.
1' - 6"
2' - 0"
6' - 0"
80" MIN. ALONG WALKS
4"
2' - 0"
3"
FINISH GRADE LANDSCAPE OR HARDSCAPE REF. PLAN
2" x 2" GALV. STEEL PIPE POST
12" DIA. CONC. FOOTING

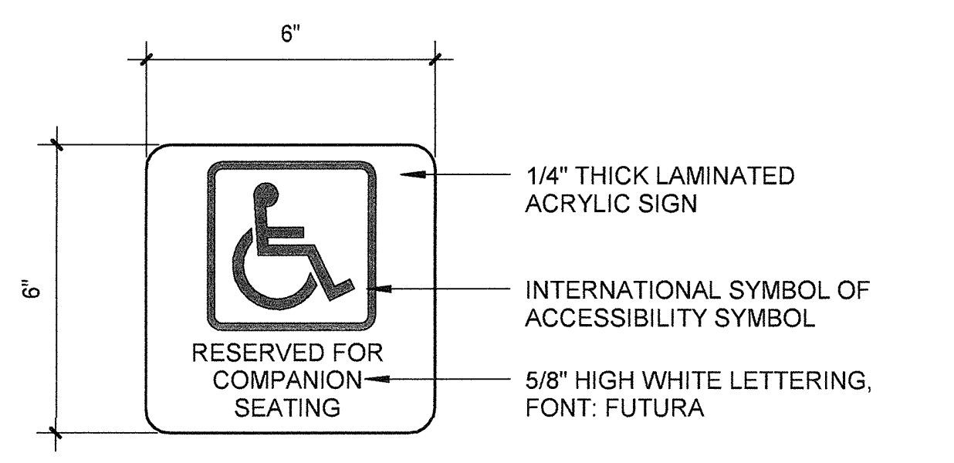
PARKING ENTRY SIGN

1/2" = 1'-0" 21


1' - 0"
VAN ACCESSIBLE
MINIMUM FINE $250
2' - 0"
8"
6' - 8"
TYPICAL
80" MIN.
2' - 0"
3"
NEW VAN ACCESSIBLE ACCESSIBLE PARKING SIGNAGE
16 GA. GALV. STL. SIGN PAINTED FED. STD. 595B BLUE INCL. FASTENERS
9 1/2" HIGH ISA SYMBOL AND 2 1/4" HIGH "VAN ACCESSIBLE" AND "$250 MINIMUM FINE" PAINTED W/ WHITE REFLECTORIZED PAINT
1/2" WIDE BORDER PAINTED W/ WHITE REFLECTORIZED PAINT
1" R., TYP.
NEW "MINIMUM FINE $250" PARKING SIGNAGE TO BE ADDED
EXISTING 2" x 2" GALV. STEEL PIPE POST 16GA TO REMAIN
FINISH GRADE OR SLAB, REF. PLAN
2" x 2" GALV. STEEL PIPE POST
12" DIA. CONC. FOOTING

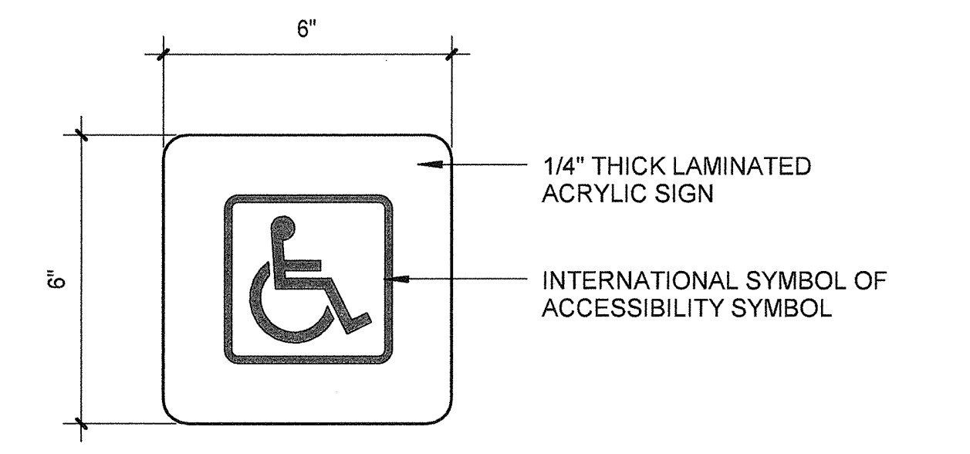
EXISTING VAN ACCESSIBLE SIGNAGE

1/2" = 1'-0" 17


6"
6"
RESERVED FOR COMPANION SEATING
1/4" THICK LAMINATED ACRYLIC SIGN
INTERNATIONAL SYMBOL OF ACCESSIBILITY SYMBOL
5/8" HIGH WHITE LETTERING, FONT: FUTURA

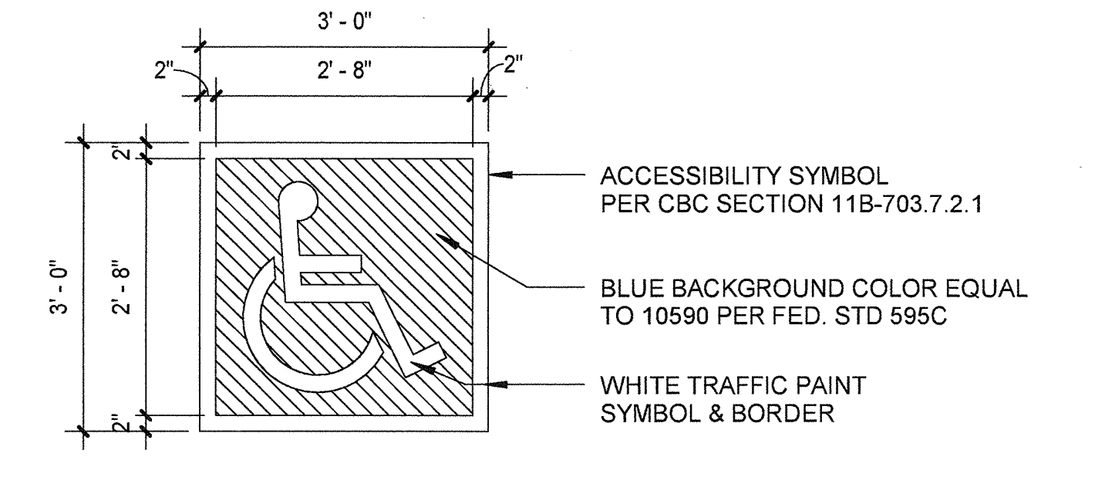
COMPANION SEATING SIGN

3" = 1'-0" 12


6"
6"
1/4" THICK LAMINATED ACRYLIC SIGN
INTERNATIONAL SYMBOL OF ACCESSIBILITY SYMBOL

ISA SEAT SIGN

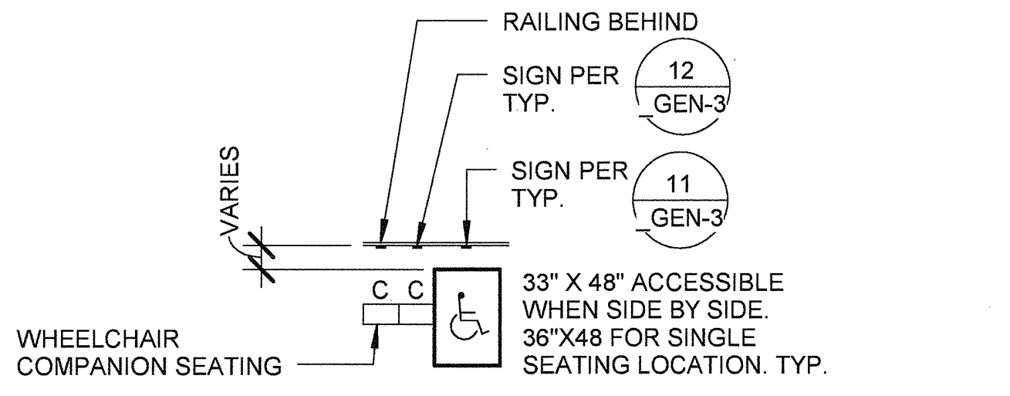
3" = 1'-0" 11


3' - 0"
2"
2' - 8"
2"
2"
3' - 0"
2' - 8"
2"
ACCESSIBILITY SYMBOL PER CBC SECTION 11B-703.7.2.1
BLUE BACKGROUND COLOR EQUAL TO 10590 PER FED. STD 595C
WHITE TRAFFIC PAINT SYMBOL & BORDER

SIGN SHALL MEET THE REQUIREMENTS OF 11B-703.7.2.1

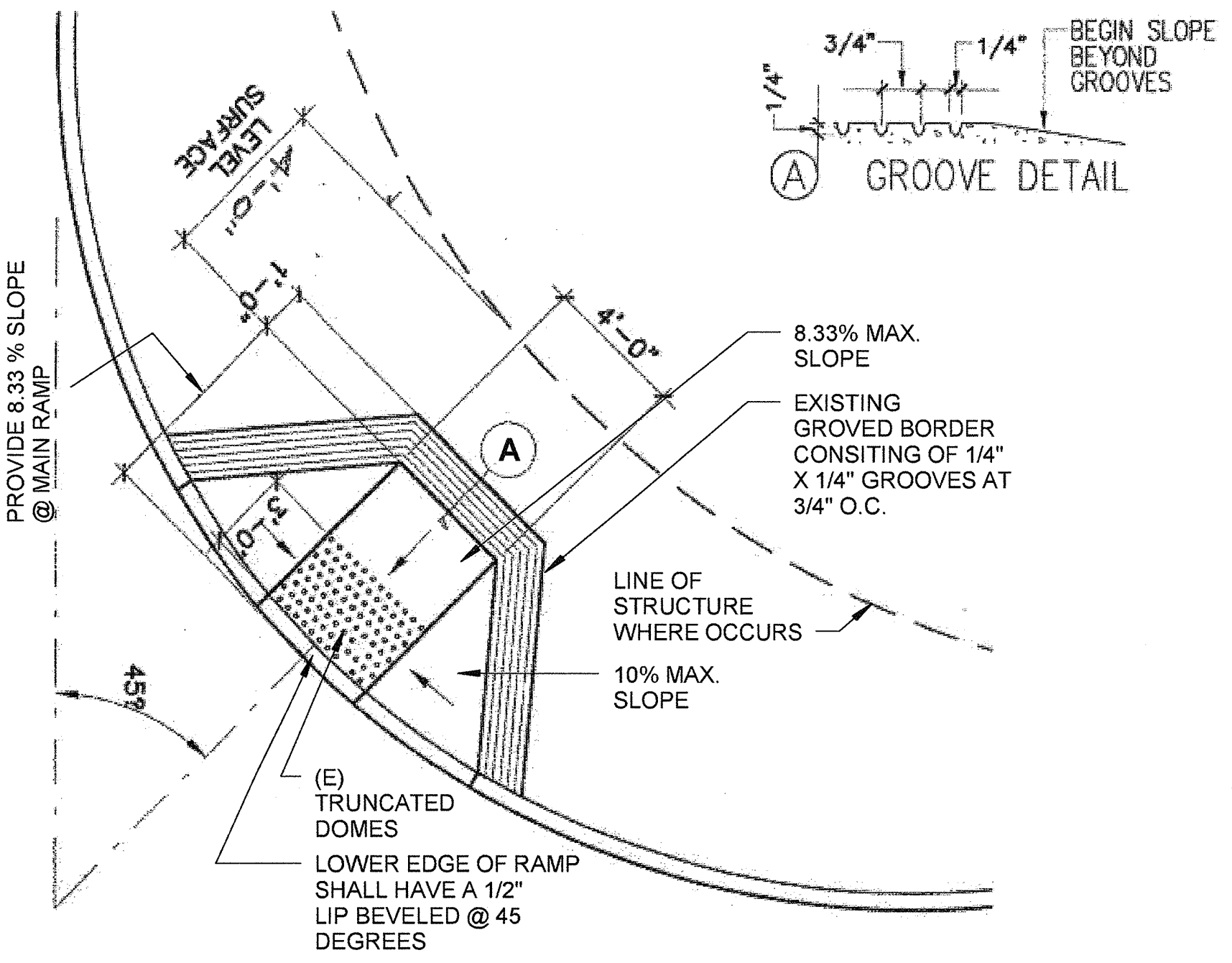
EXISTING ISA PARKING SYMBOL

1/2" = 1'-0" 3


RAILING BEHIND
SIGN PER 12/GEN-3 TYP.
SIGN PER 11/GEN-3 TYP.
VARIES
C C
33" X 48" ACCESSIBLE WHEN SIDE BY SIDE. 36"X48 FOR SINGLE SEATING LOCATION. TYP.
WHEELCHAIR COMPANION SEATING

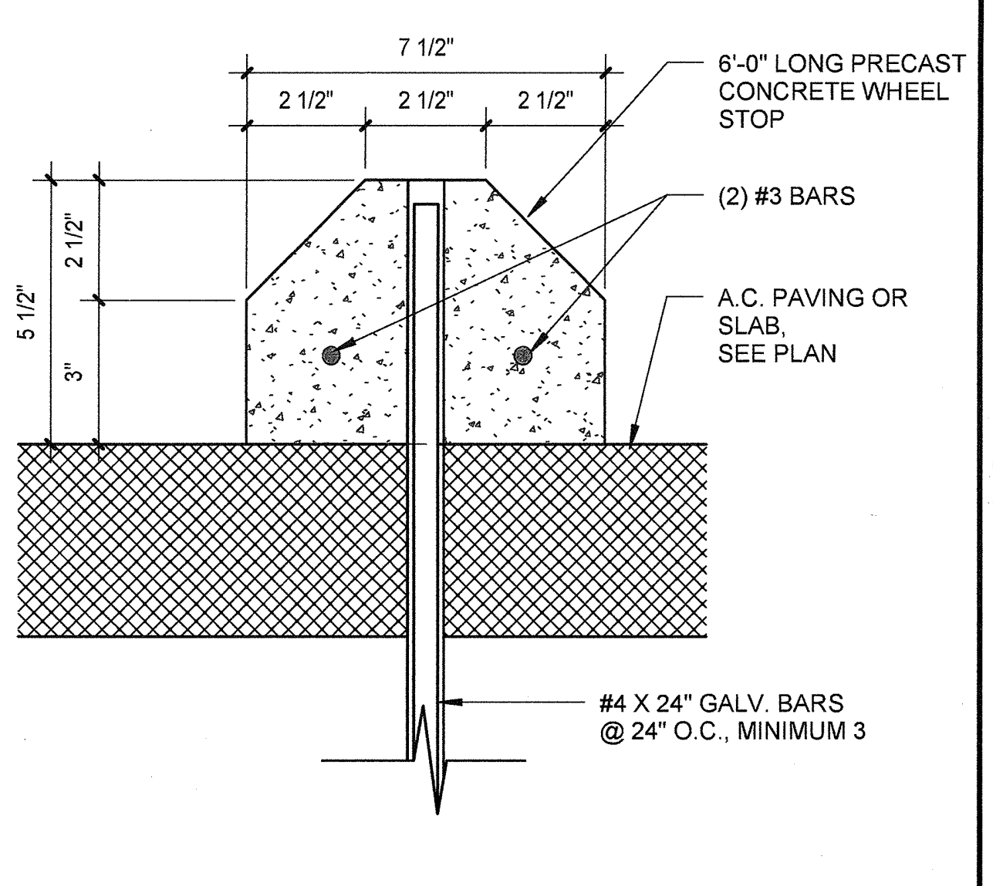
ACCESSIBLE SEATING

1/8" = 1'-0" 2


3/4"
1/4"
1/4"
BEGIN SLOPE BEYOND GROOVES
A GROOVE DETAIL
LEVEL SURFACE
4'-0"
1'-0"
4'-0"
3'-0"
A
45°
6'-0" AS REQUIRED TO PROVIDE 8.33 % SLOPE @ MAIN RAMP
8.33% MAX. SLOPE
EXISTING GROVED BORDER CONSITING OF 1/4" X 1/4" GROOVES AT 3/4" O.C.
LINE OF STRUCTURE WHERE OCCURS
10% MAX. SLOPE
(E) TRUNCATED DOMES
LOWER EDGE OF RAMP SHALL HAVE A 1/2" LIP BEVELED @ 45 DEGREES

EXISTING RAMP AT CURB

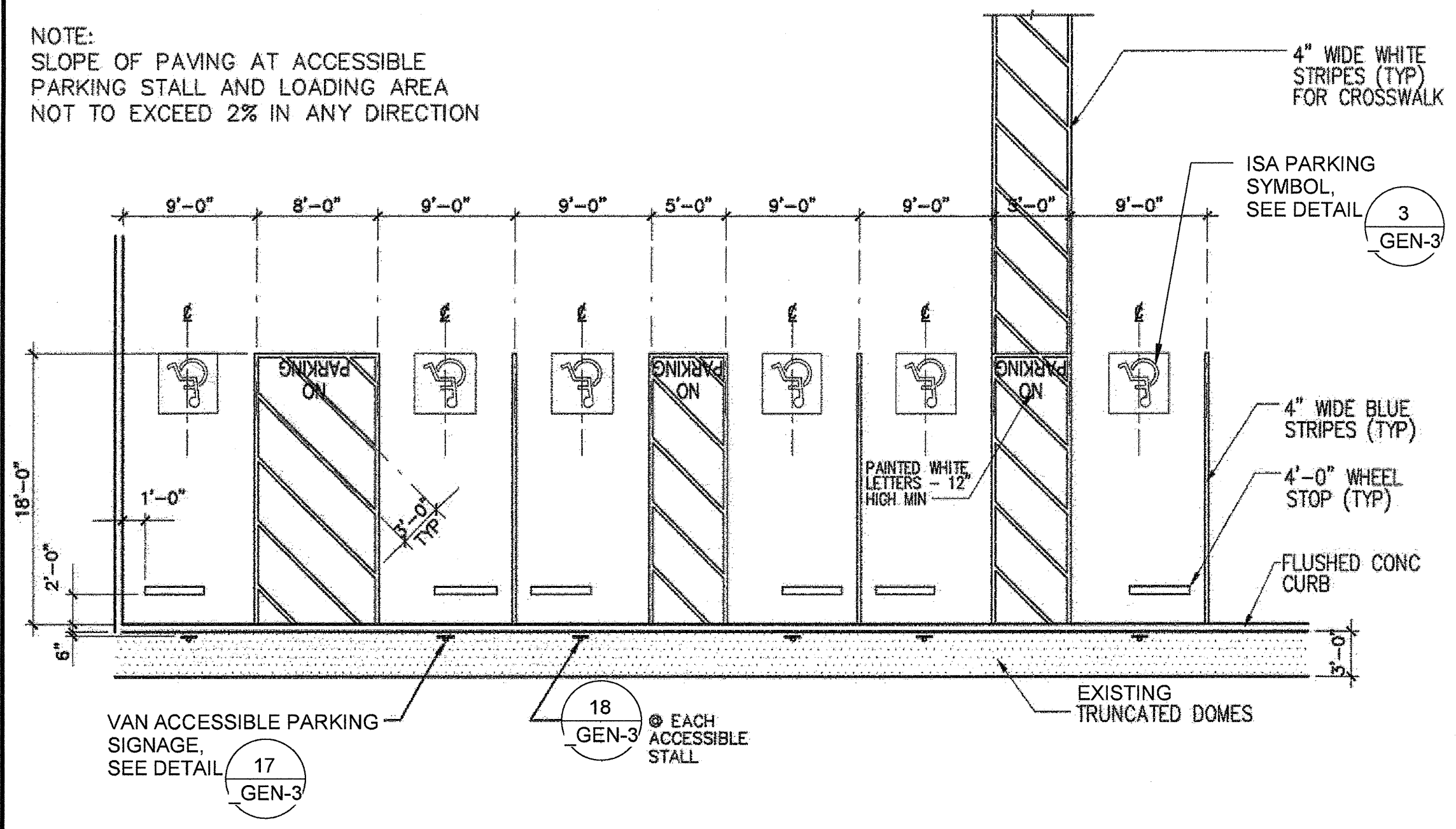
1" = 1'-0" 24


7 1/2"
2 1/2"
2 1/2"
2 1/2"
5 1/2"
2 1/2"
3"
6'-0" LONG PRECAST CONCRETE WHEEL STOP
(2) #3 BARS
A.C. PAVING OR SLAB, SEE PLAN
#4 X 24" GALV. BARS @ 24" O.C., MINIMUM 3

CONCRETE WHEEL STOP

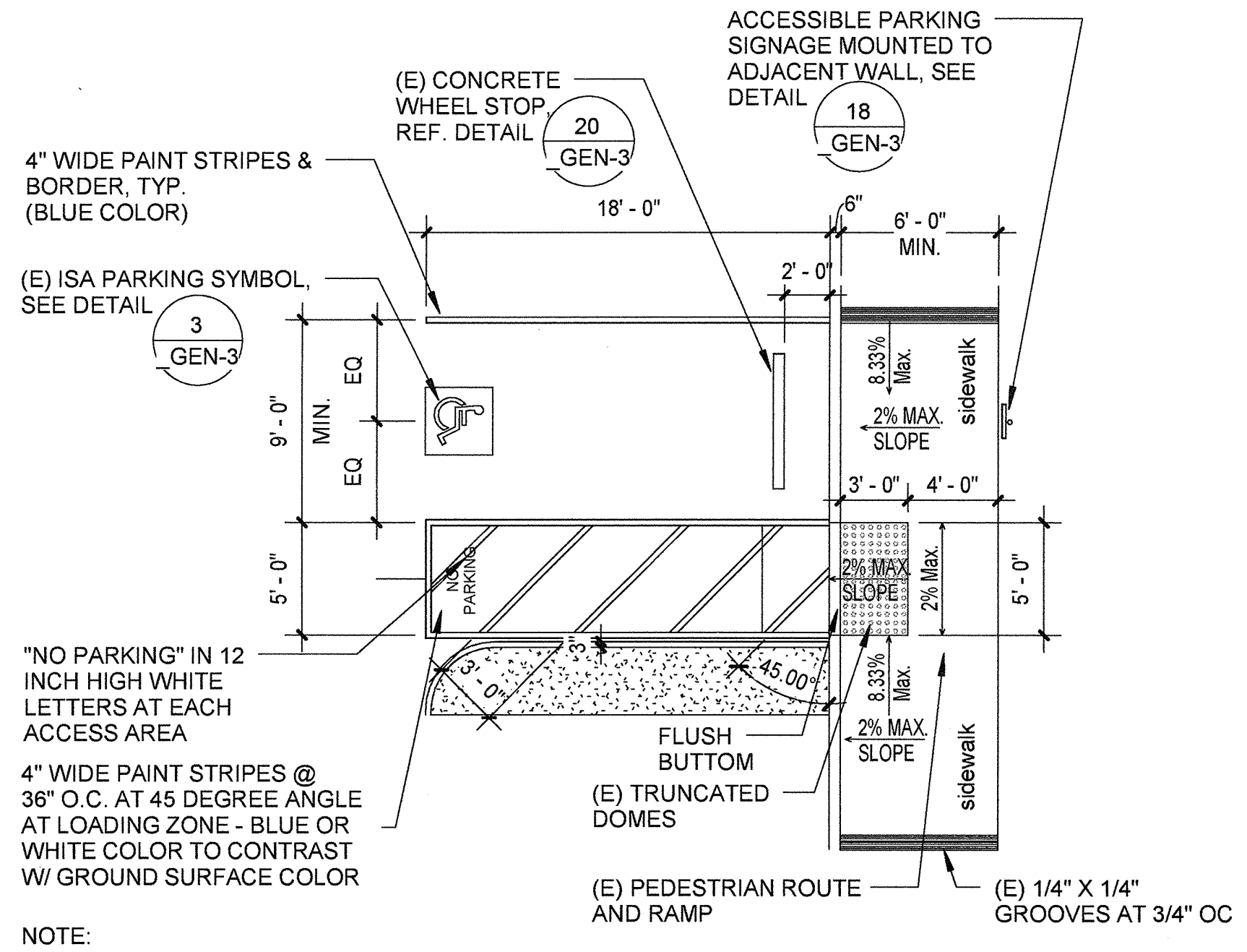
3" = 1'-0" 20

NOTE:
SLOPE OF PAVING AT ACCESSIBLE PARKING STALL AND LOADING AREA NOT TO EXCEED 2% IN ANY DIRECTION


9'-0"
8'-0"
9'-0"
9'-0"
5'-0"
9'-0"
9'-0"
5'-0"
9'-0"
NO PARKING
NO PARKING
NO PARKING
18'-0"
1'-0"
2'-0"
6"
3'-0" TYP
3'-0"
4" WIDE WHITE STRIPES (TYP) FOR CROSSWALK
ISA PARKING SYMBOL, SEE DETAIL 3/GEN-3
4" WIDE BLUE STRIPES (TYP)
PAINTED WHITE LETTERS - 12" HIGH MIN
4'-0" WHEEL STOP (TYP)
FLUSHED CONC CURB
EXISTING TRUNCATED DOMES
VAN ACCESSIBLE PARKING SIGNAGE, SEE DETAIL 17/GEN-3
18/GEN-3 @ EACH ACCESSIBLE STALL

ENLARGED EXISTING ACCESSIBLE PARKING STALLS

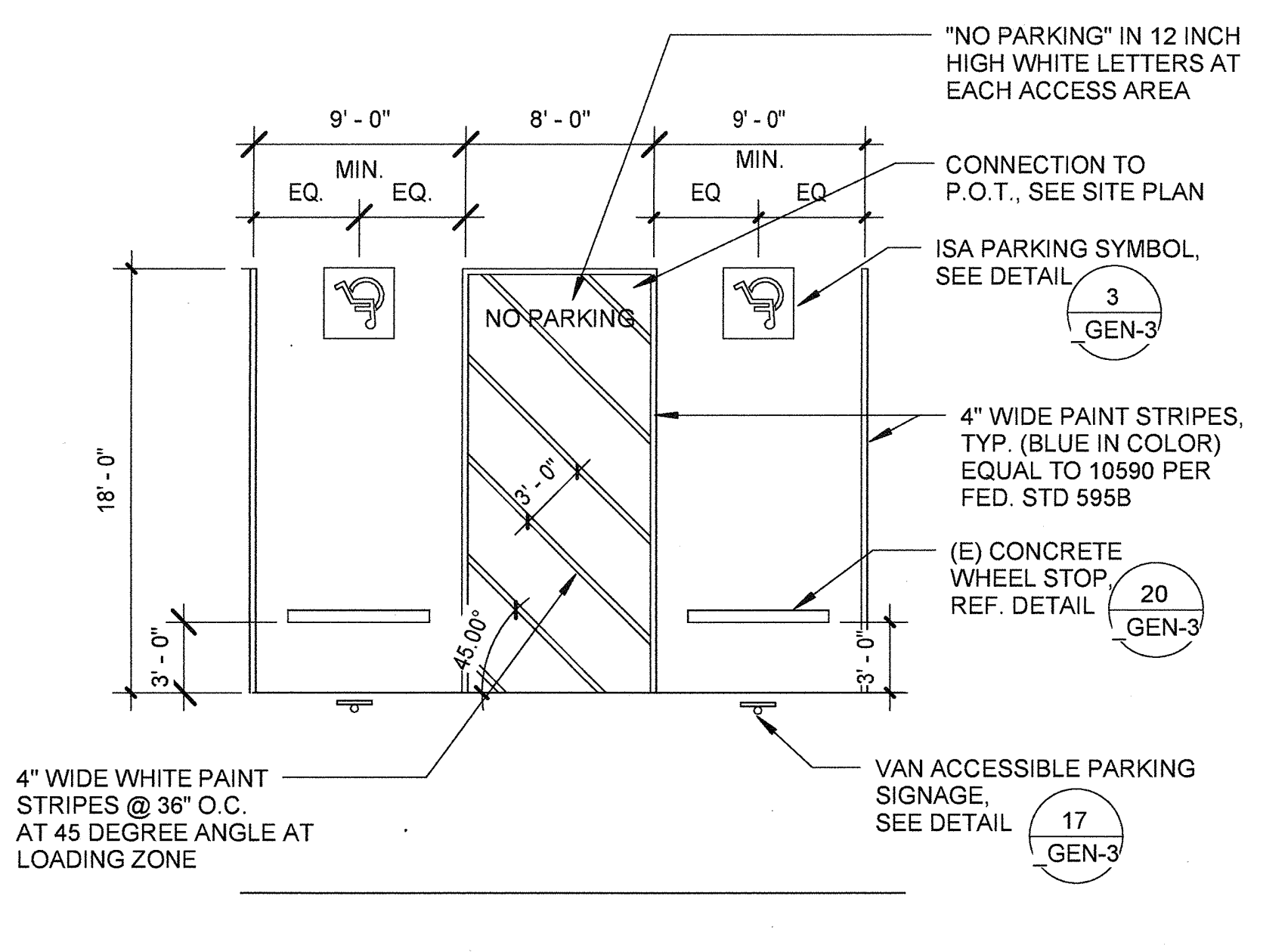
1" = 1'-0" 16


ACCESSIBLE PARKING SIGNAGE MOUNTED TO ADJACENT WALL, SEE DETAIL 18/GEN-3
(E) CONCRETE WHEEL STOP, REF. DETAIL 20/GEN-3
4" WIDE PAINT STRIPES & BORDER, TYP. (BLUE COLOR)
(E) ISA PARKING SYMBOL, SEE DETAIL 3/GEN-3
18' - 0"
6"
6' - 0" MIN.
2' - 0"
9' - 0" MIN.
EQ
EQ
8.33% Max.
2% MAX. SLOPE
sidewalk
3' - 0"
4' - 0"
5' - 0"
NO PARKING
2% MAX. SLOPE
2% Max.
5' - 0"
3' - 0"
45.00°
8.33% Max.
2% MAX. SLOPE
sidewalk
"NO PARKING" IN 12 INCH HIGH WHITE LETTERS AT EACH ACCESS AREA
4" WIDE PAINT STRIPES @ 36" O.C. AT 45 DEGREE ANGLE AT LOADING ZONE - BLUE OR WHITE COLOR TO CONTRAST W/ GROUND SURFACE COLOR
FLUSH BUTTOM
(E) TRUNCATED DOMES
(E) PEDESTRIAN ROUTE AND RAMP
(E) 1/4" X 1/4" GROOVES AT 3/4" OC

NOTE:
MAXIMUM SLOPE OF FINISHED SURFACE SHALL NOT EXCEED 2% IN ANY DIRECTION.

EXISTING ACCESSIBLE PARKING STALL

1/8" = 1'-0" 10


"NO PARKING" IN 12 INCH HIGH WHITE LETTERS AT EACH ACCESS AREA
9' - 0"
8' - 0"
9' - 0"
MIN.
EQ.
EQ.
MIN.
EQ
EQ
CONNECTION TO P.O.T., SEE SITE PLAN
ISA PARKING SYMBOL, SEE DETAIL 3/GEN-3
NO PARKING
4" WIDE PAINT STRIPES, TYP. (BLUE IN COLOR) EQUAL TO 10590 PER FED. STD 595B
18' - 0"
3' - 0"
45.00°
3' - 0"
3' - 0"
(E) CONCRETE WHEEL STOP, REF. DETAIL 20/GEN-3
VAN ACCESSIBLE PARKING SIGNAGE, SEE DETAIL 17/GEN-3
4" WIDE WHITE PAINT STRIPES @ 36" O.C. AT 45 DEGREE ANGLE AT LOADING ZONE

NOTE:
MAXIMUM SLOPE OF FINISHED SURFACE SHALL NOT EXCEED 2% IN ANY DIRECTION.

EXISTING VAN ACCESSIBL' PARKING STALL

1/8" = 1'-0" 1

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS [illegible] SS [illegible]
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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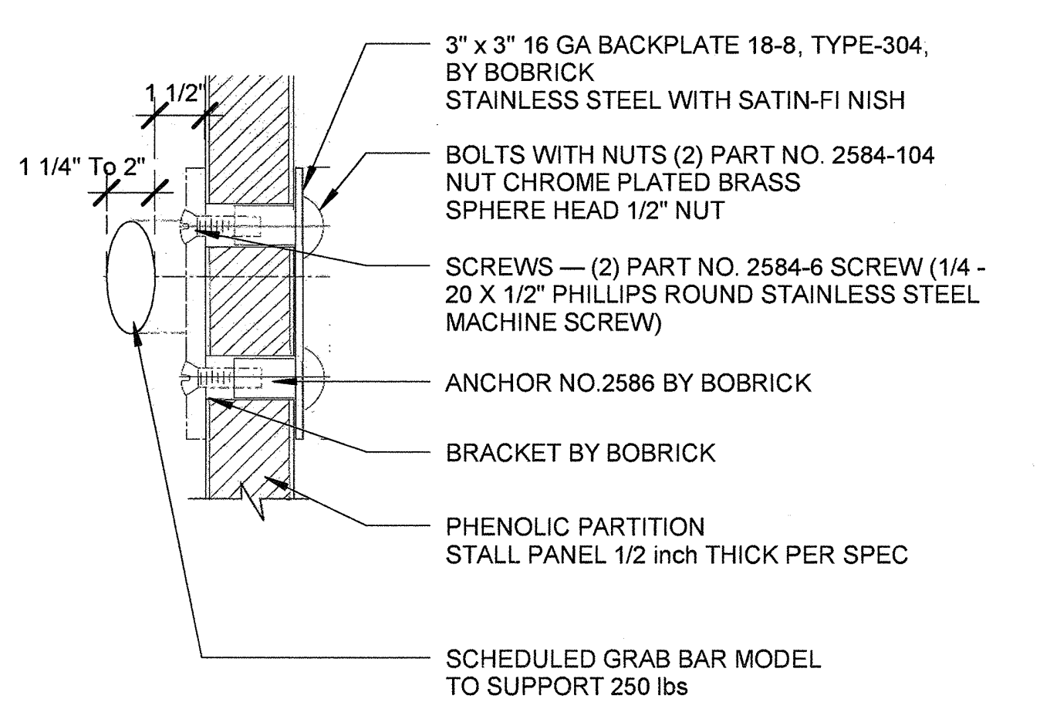
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: _GEN-3

SHEET TITLE:

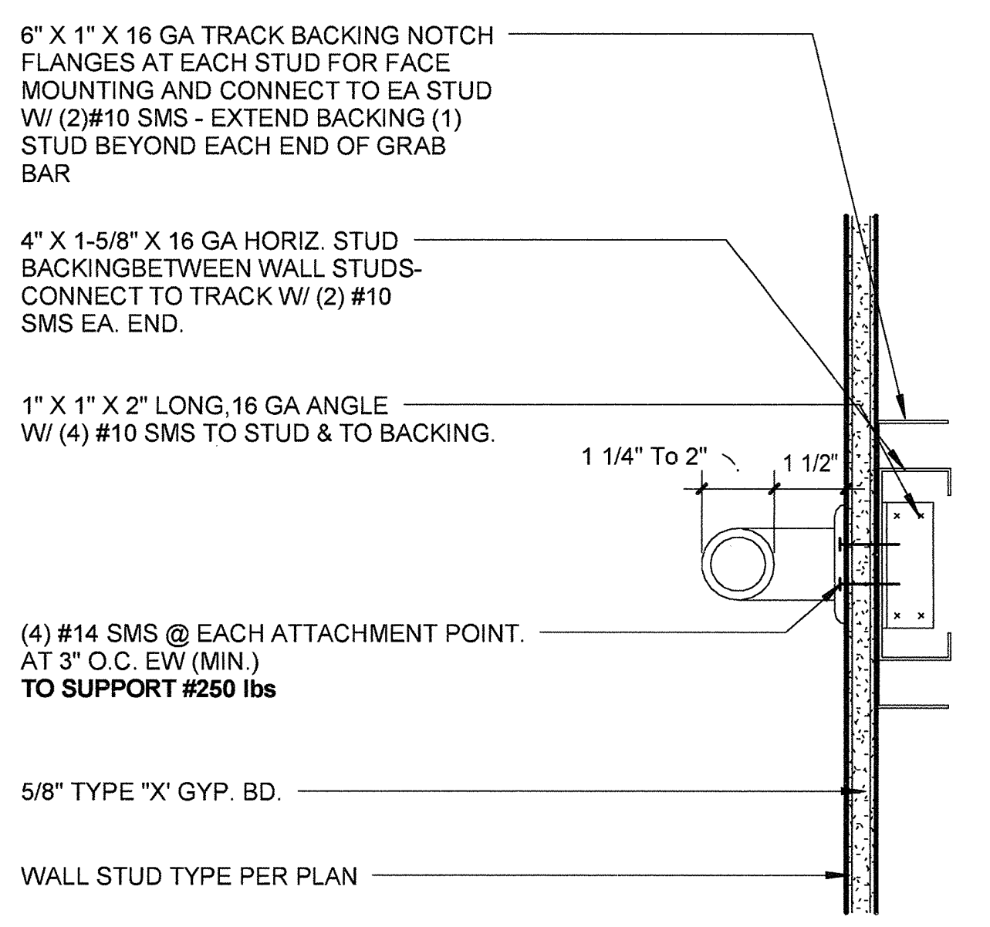
ACCESSIBLITY COMPLIANCE

SVA ARCHITECTS
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


3" x 3" 16 GA BACKPLATE 18-8, TYPE-304, BY BOBRICK STAINLESS STEEL WITH SATIN-FI NISH
1 1/2"
1 1/4" To 2"
BOLTS WITH NUTS (2) PART NO. 2584-104 NUT CHROME PLATED BRASS SPHERE HEAD 1/2" NUT
SCREWS — (2) PART NO. 2584-6 SCREW (1/4 - 20 X 1/2" PHILLIPS ROUND STAINLESS STEEL MACHINE SCREW)
ANCHOR NO.2586 BY BOBRICK
BRACKET BY BOBRICK
PHENOLIC PARTITION STALL PANEL 1/2 inch THICK PER SPEC
SCHEDULED GRAB BAR MODEL TO SUPPORT 250 lbs

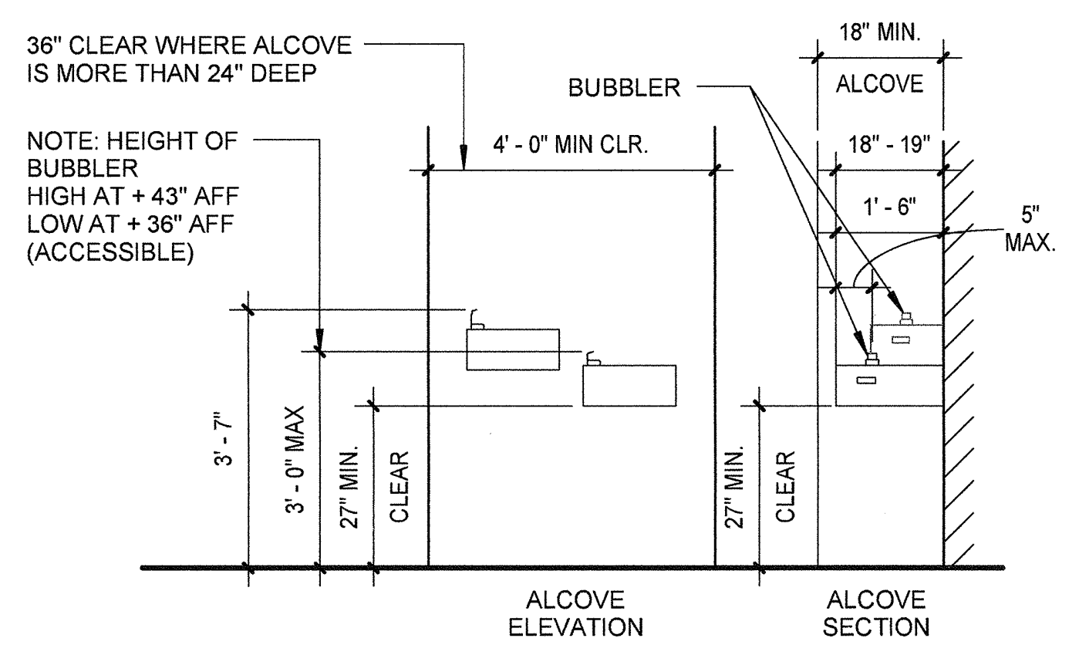
GRAB BARS TO STALL PARTITION

3" = 1'-0" 20

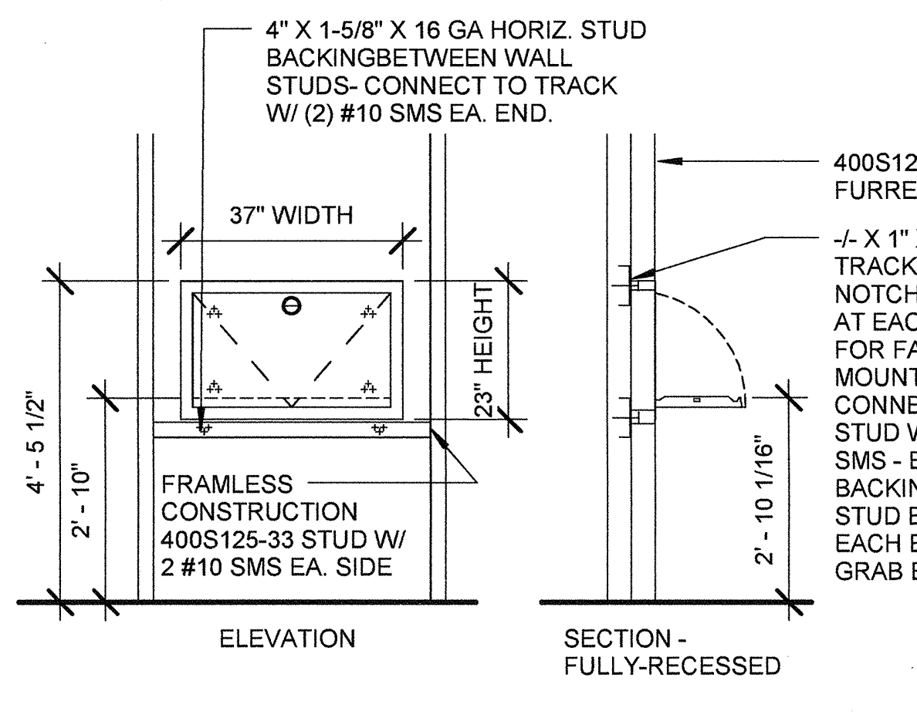

6" X 1" X 16 GA TRACK BACKING NOTCH FLANGES AT EACH STUD FOR FACE MOUNTING AND CONNECT TO EA STUD W/ (2)#10 SMS - EXTEND BACKING (1) STUD BEYOND EACH END OF GRAB BAR
4" X 1-5/8" X 16 GA HORIZ. STUD BACKINGBETWEEN WALL STUDS- CONNECT TO TRACK W/ (2) #10 SMS EA. END.
1" X 1" X 2" LONG,16 GA ANGLE W/ (4) #10 SMS TO STUD & TO BACKING.
1 1/4" To 2"
1 1/2"
(4) #14 SMS @ EACH ATTACHMENT POINT. AT 3" O.C. EW (MIN.) TO SUPPORT #250 lbs
5/8" TYPE "X' GYP. BD.
WALL STUD TYPE PER PLAN

GRAB BARS TO STUD WALL

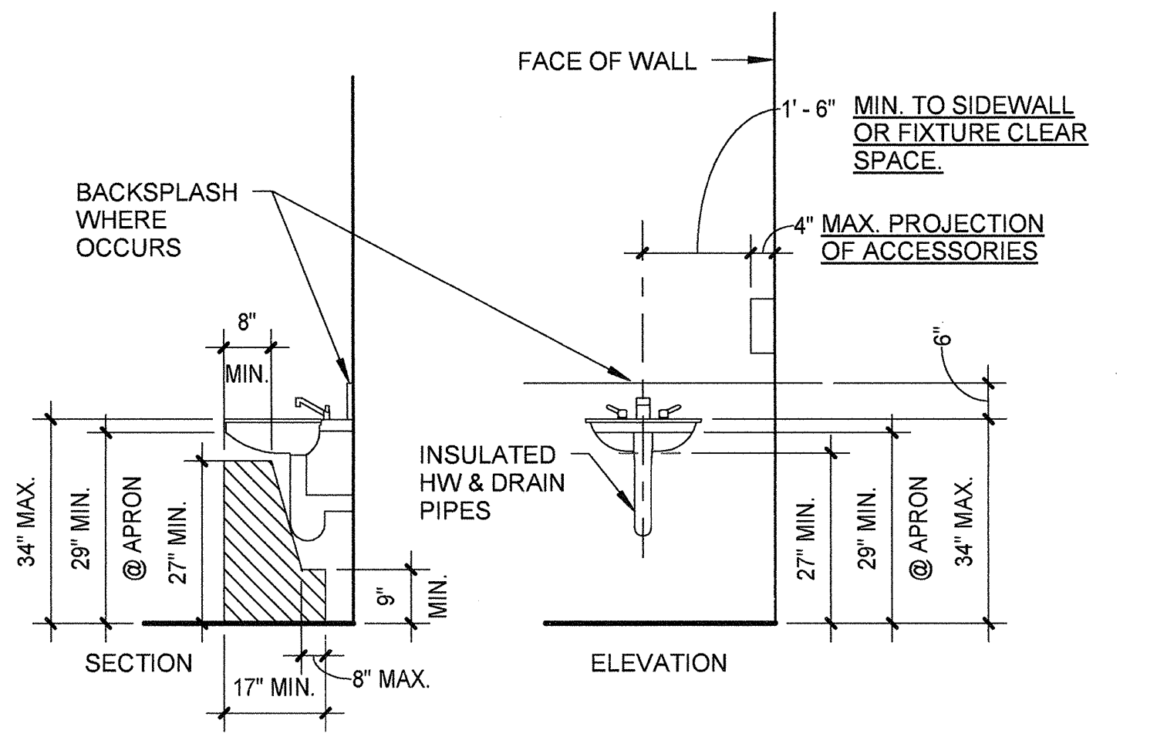
3" = 1'-0" 19



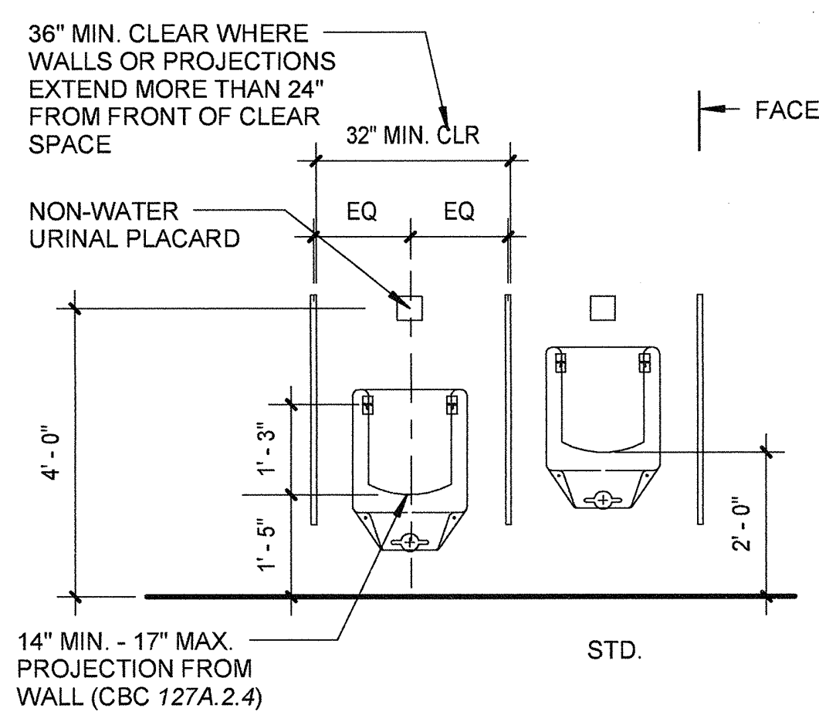
DRINKING FOUNTAIN


4" X 1-5/8" X 16 GA HORIZ. STUD BACKINGBETWEEN WALL STUDS- CONNECT TO TRACK W/ (2) #10 SMS EA. END.
400S125-33 FURRED WALL
-/- X 1" X 16 GA TRACK BACKING NOTCH FLANGES AT EACH STUD FOR FACE MOUNTING AND CONNECT TO EA STUD W/ (2)#10 SMS - EXTEND BACKING (1) STUD BEYOND EACH END OF GRAB BAR
37" WIDTH
23" HEIGHT
4' - 5 1/2"
2' - 10"
2' - 10 1/16"
FRAMLESS CONSTRUCTION 400S125-33 STUD W/ 2 #10 SMS EA. SIDE
ELEVATION
SECTION - FULLY-RECESSED

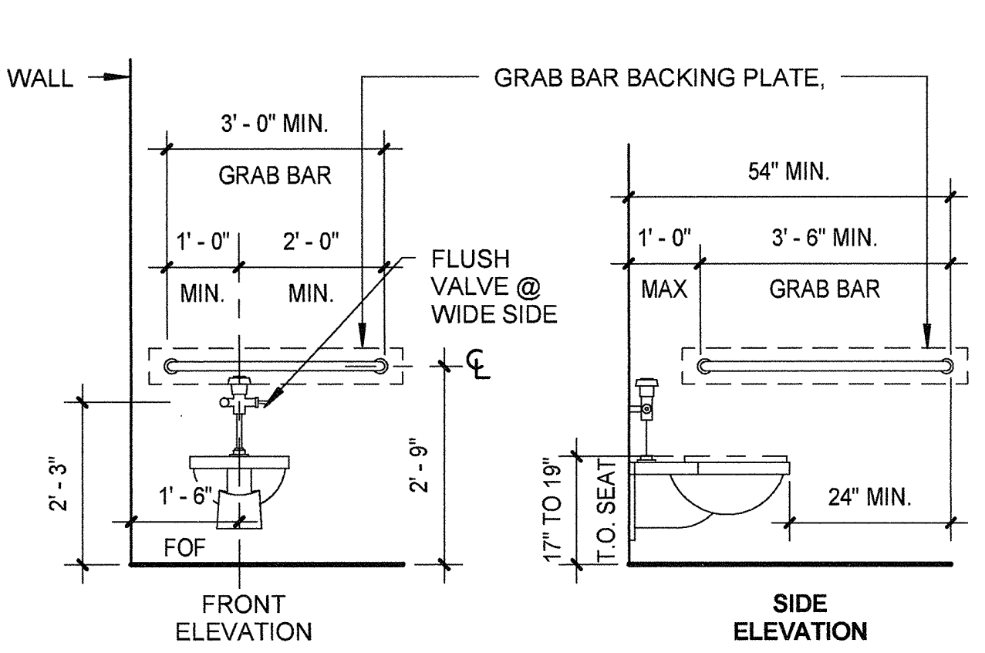
BABY CHANGING TABLE



ACCESSIBLE LAVATORY

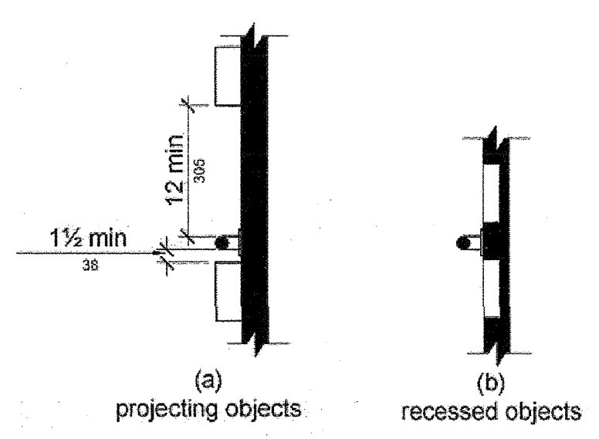

36" MIN. CLEAR WHERE WALLS OR PROJECTIONS EXTEND MORE THAN 24" FROM FRONT OF CLEAR SPACE
32" MIN. CLR
EQ
EQ
NON-WATER URINAL PLACARD
4' - 0"
1' - 3"
1' - 5"
2' - 0"
14" MIN. - 17" MAX. PROJECTION FROM WALL (CBC 127A.2.4)
STD.

ACCESSIBLE URINAL

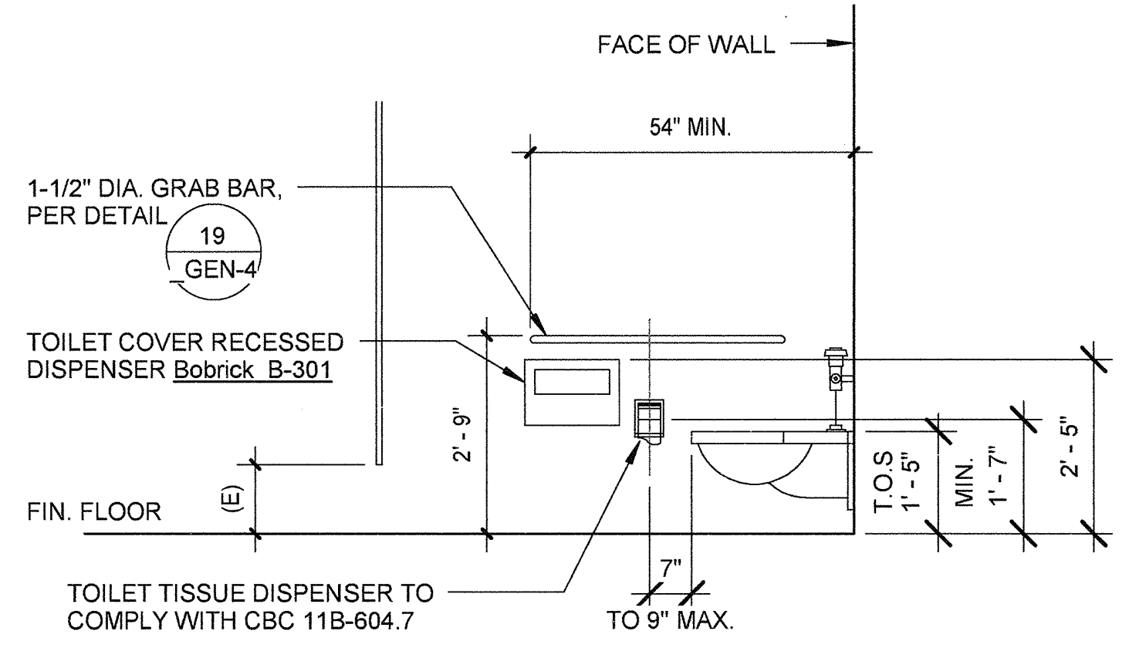


ACCESSIBLE WATER CLOSET

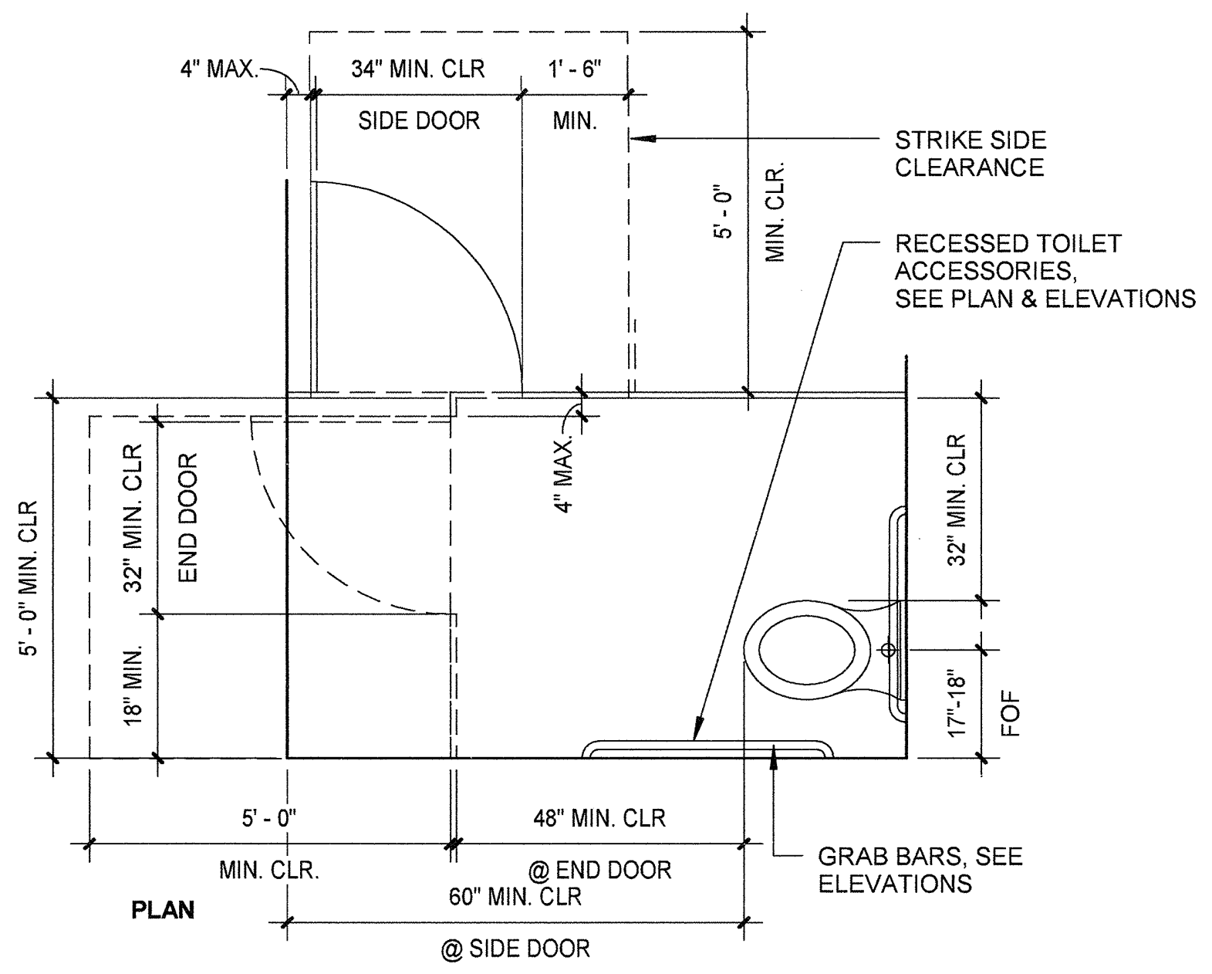
TOILET ROOM PLUMBING FIXTURE HEIGHTS/DIMENSIONS



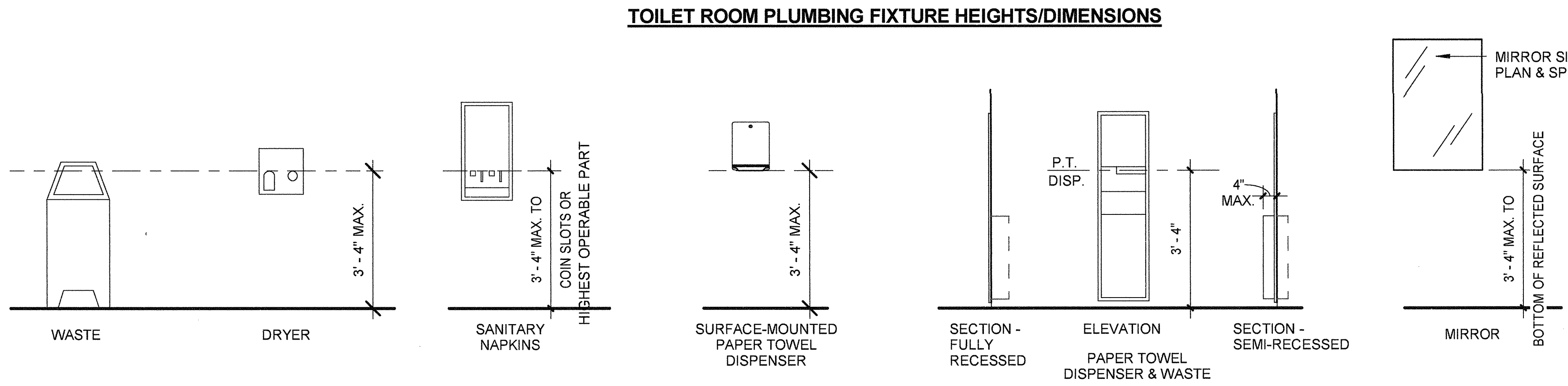
GRAB BAR


FACE OF WALL
54" MIN.
1-1/2" DIA. GRAB BAR, PER DETAIL 19 GEN-4
TOILET COVER RECESSED DISPENSER Bobrick B-301
2' - 9"
T.O.S 1' - 5"
MIN. 1' - 7"
2' - 5"
FIN. FLOOR
(E)
TOILET TISSUE DISPENSER TO COMPLY WITH CBC 11B-604.7
7" TO 9" MAX.

TOILET COMPARTMENT ACCESSORIES INDIVIDUAL ITEMS



ACCESSIBLE TOILET COMPARTMENTS


MIRROR SIZE PER PLAN & SPECS
3' - 4" MAX.
3' - 4" MAX. TO COIN SLOTS OR HIGHEST OPERABLE PART
3' - 4" MAX.
P.T. DISP.
4" MAX.
3' - 4"
3' - 4" MAX. TO BOTTOM OF REFLECTED SURFACE
WASTE
DRYER
SANITARY NAPKINS
SURFACE-MOUNTED PAPER TOWEL DISPENSER
SECTION - FULLY RECESSED
ELEVATION
PAPER TOWEL DISPENSER & WASTE
SECTION - SEMI-RECESSED
MIRROR

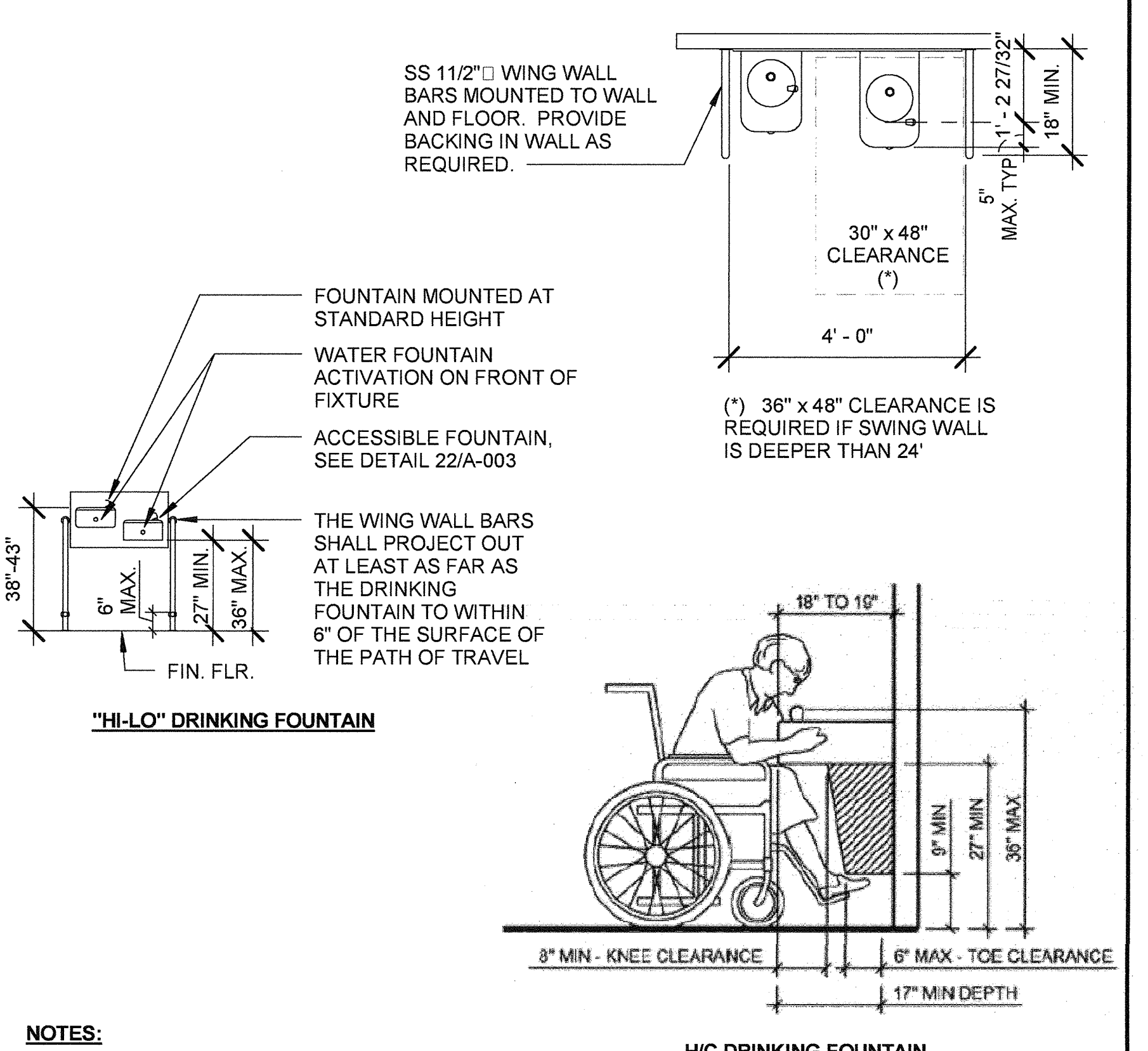
NOTES:

1. MINIMUM 30" x 48" CLEAR FLOOR OR GROUND SPACE IS PROVIDED TO ALLOW FORWARD OR PARALLEL APPROACH TO ACCESSORIES.
2. CONTROLS AND OPARATING MECHANISMS ARE OPERATE THE ONE HAND AND DO NOT REQIURE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WIST.
3. THE FORCE REQUIRED TO ACTIVATE CONTROLS IS 5 LBS. MAXIMUM.
4. COAT HOOKS AND SHELVING ARE LOCATED WITHIN APPROPRIATE REACH RANGES (48" MAX. ABOVE FLOOR RECOMMENDED).
5. IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE HAS A USABLE SHELF NO HIGHER THAN 44" ABOVE FLOOR.
6. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE **11**/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM (11B-609.3)
7. *TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL OR PARTITION CLOSEST TO THE WATER CLOSET, 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES MINIMUM ABOVE THE FINISH FLOOR. THE OUTLET OF THE DISPENSER SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.* CBC 11B-603.5 & 11B-604.7

TOILET ROOM ACCESSORY MOUNTING HEIGHTS

TOILET ROOM ACCESSORY & PLUMBING FIXTURE HEIGHTS DETAILS

3/8" = 1'-0" 3

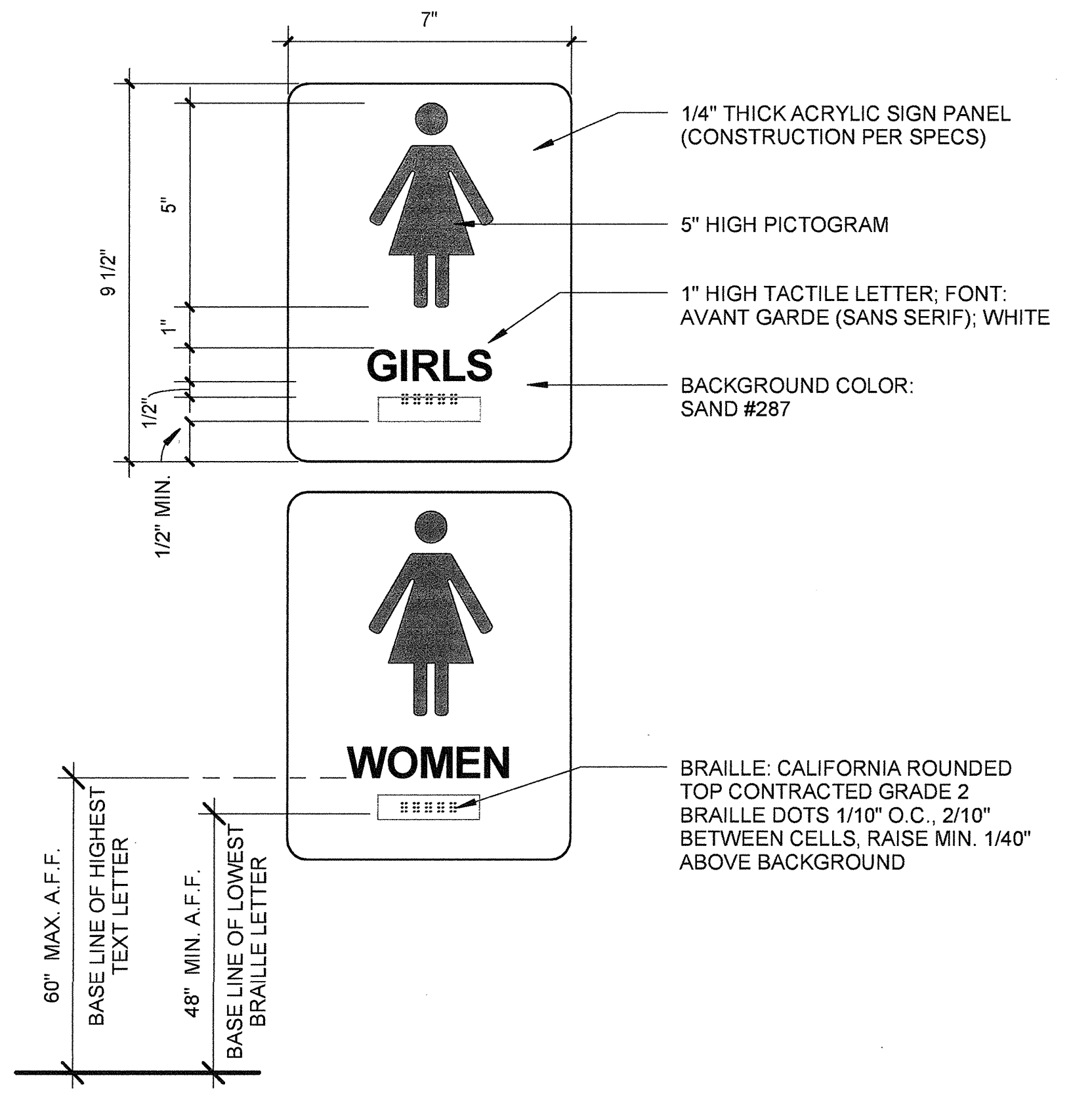

SS 11/2"□ WING WALL BARS MOUNTED TO WALL AND FLOOR. PROVIDE BACKING IN WALL AS REQUIRED.
1' - 2 27/32"
18" MIN.
5" MAX. TYP.
30" x 48" CLEARANCE (*)
4' - 0"
(*) 36" x 48" CLEARANCE IS REQUIRED IF SWING WALL IS DEEPER THAN 24'
FOUNTAIN MOUNTED AT STANDARD HEIGHT
WATER FOUNTAIN ACTIVATION ON FRONT OF FIXTURE
ACCESSIBLE FOUNTAIN, SEE DETAIL 22/A-003
THE WING WALL BARS SHALL PROJECT OUT AT LEAST AS FAR AS THE DRINKING FOUNTAIN TO WITHIN 6" OF THE SURFACE OF THE PATH OF TRAVEL
38"-43"
6" MAX.
27" MIN.
36" MAX.
FIN. FLR.
"HI-LO" DRINKING FOUNTAIN
18" TO 19"
9" MIN
27" MIN
36" MAX
8" MIN - KNEE CLEARANCE
6" MAX - TOE CLEARANCE
17" MIN DEPTH
H/C DRINKING FOUNTAIN

NOTES:

A. STREAM FROM BUBBLER IS A MINIMUM OF 4" HIGH.
B. THE FORCE TO ACTIVATE CONTROLS DOES NOT EXCEED 5 LDF.

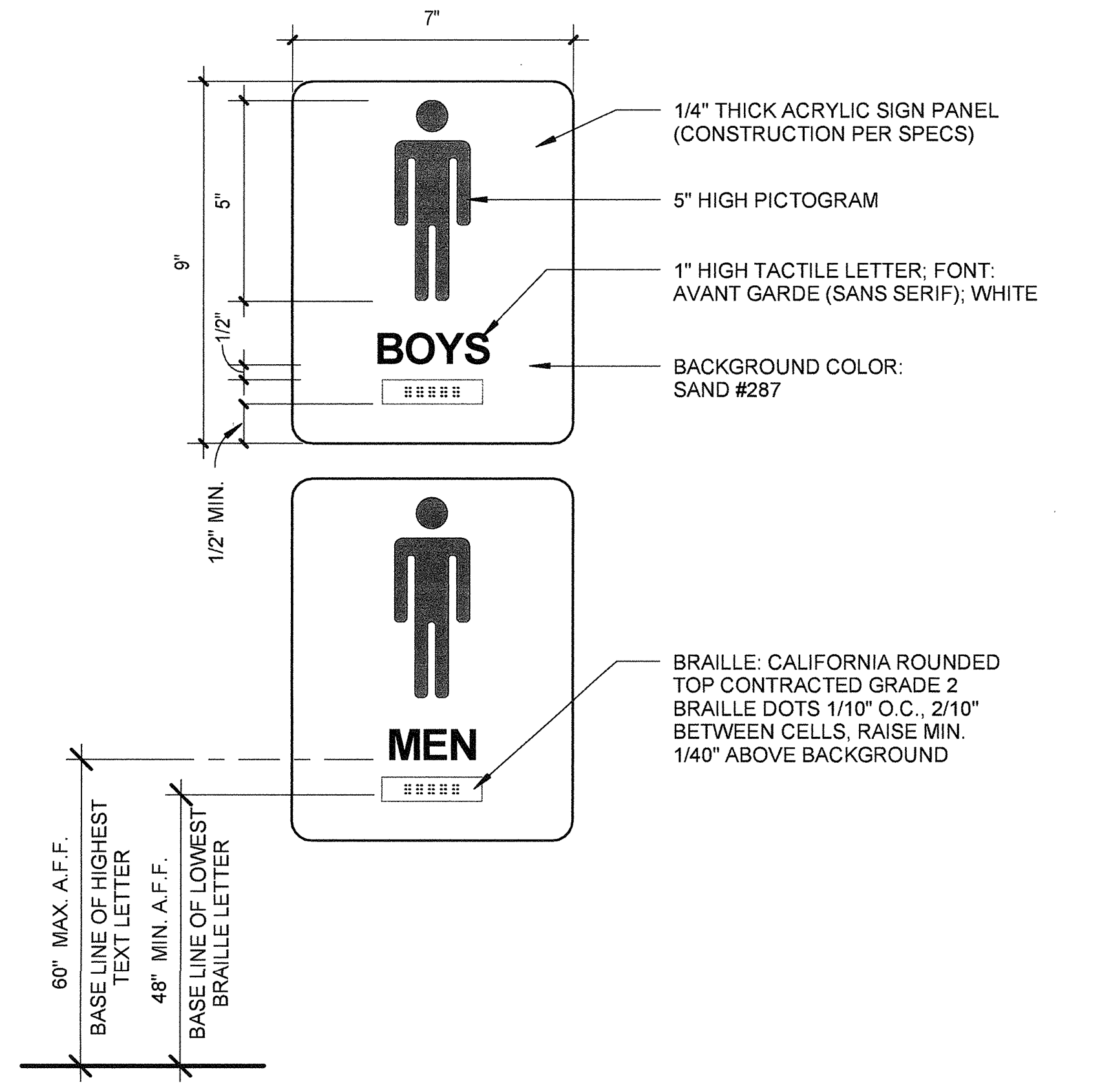
DRINKING FOUNTAIN

3/8" = 1'-0" 16


7"
9 1/2"
5"
1"
1/2"
1/2" MIN.
GIRLS
WOMEN
1/4" THICK ACRYLIC SIGN PANEL (CONSTRUCTION PER SPECS)
5" HIGH PICTOGRAM
1" HIGH TACTILE LETTER; FONT: AVANT GARDE (SANS SERIF); WHITE
BACKGROUND COLOR: SAND #287
BRAILLE: CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE DOTS 1/10" O.C., 2/10" BETWEEN CELLS, RAISE MIN. 1/40" ABOVE BACKGROUND
60" MAX. A.F.F. BASE LINE OF HIGHEST TEXT LETTER
48" MIN. A.F.F. BASE LINE OF LOWEST BRAILLE LETTER

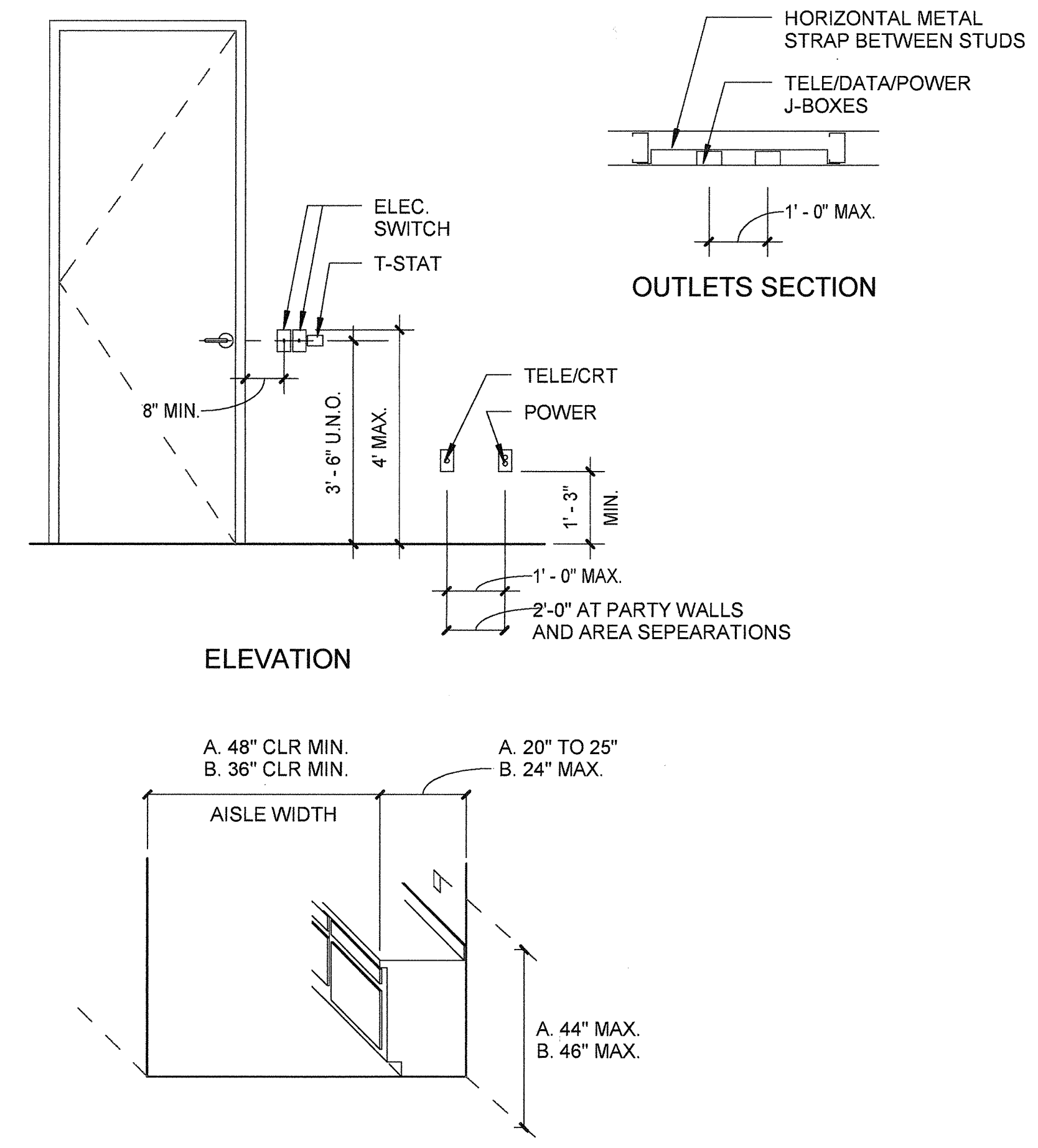
RESTROOM SIGN - WOMEN/GIRLS

3" = 1'-0" 11


7"
9"
5"
1/2"
1/2" MIN.
BOYS
MEN
1/4" THICK ACRYLIC SIGN PANEL (CONSTRUCTION PER SPECS)
5" HIGH PICTOGRAM
1" HIGH TACTILE LETTER; FONT: AVANT GARDE (SANS SERIF); WHITE
BACKGROUND COLOR: SAND #287
BRAILLE: CALIFORNIA ROUNDED TOP CONTRACTED GRADE 2 BRAILLE DOTS 1/10" O.C., 2/10" BETWEEN CELLS, RAISE MIN. 1/40" ABOVE BACKGROUND
60" MAX. A.F.F. BASE LINE OF HIGHEST TEXT LETTER
48" MIN. A.F.F. BASE LINE OF LOWEST BRAILLE LETTER

RESTROOM SIGN - MEN/BOYS

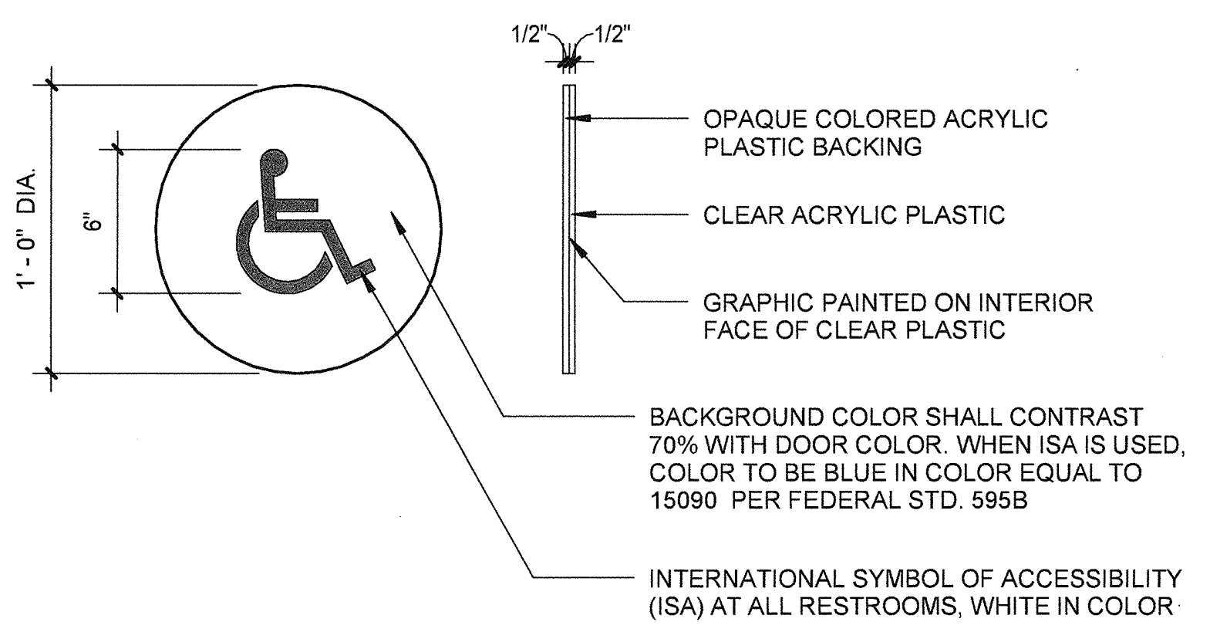
3" = 1'-0" 6



A. FORWARD APPROACH (KNEE SIDE UNDER COUNTER)
B. SIDE APPROACH OF ACCESSIBLE COUNTER HT.
REACH OVER OBSTRUCTION TYP. WALL MOUNT DIMENSION

REACH RANGES AND MOUNTING HEIGHTS

3/8" = 1'-0" 15

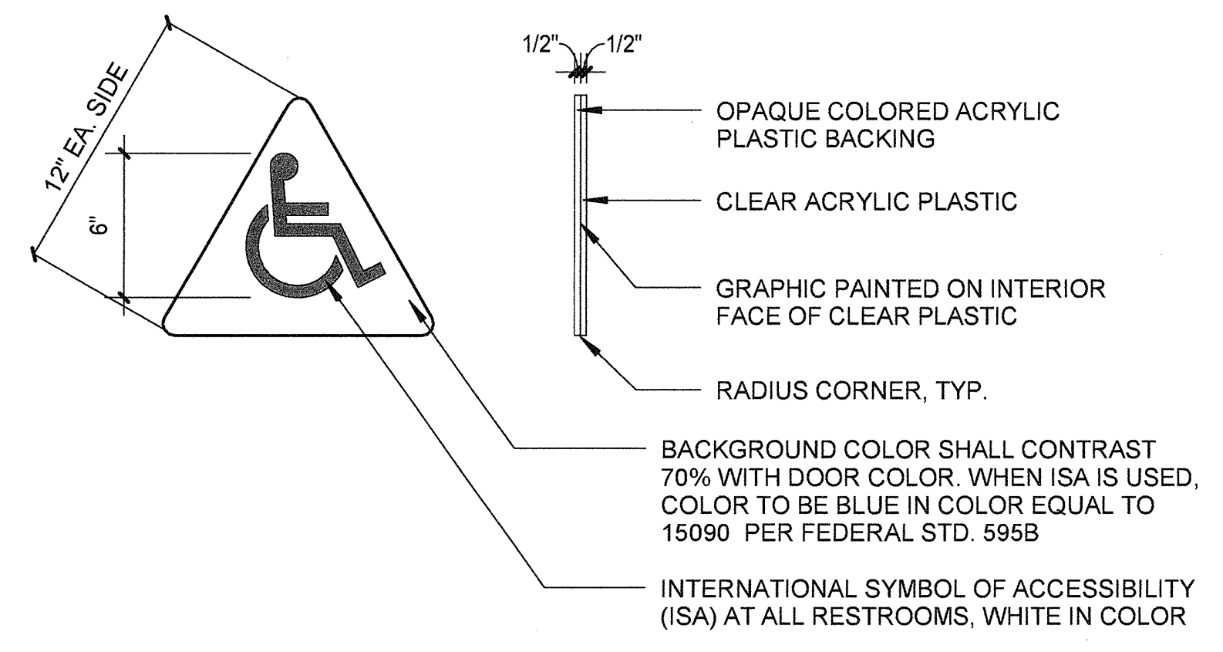

1' - 0" DIA.
6"
1/2"
1/2"
OPAQUE COLORED ACRYLIC PLASTIC BACKING
CLEAR ACRYLIC PLASTIC
GRAPHIC PAINTED ON INTERIOR FACE OF CLEAR PLASTIC
BACKGROUND COLOR SHALL CONTRAST 70% WITH DOOR COLOR. WHEN ISA IS USED, COLOR TO BE BLUE IN COLOR EQUAL TO 15090 PER FEDERAL STD. 595B
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AT ALL RESTROOMS, WHITE IN COLOR

WOMEN/GIRLS

NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FINISH FLOOR LINE TO CENTER OF SIGN.

TOILET ROOM DOOR SIGNAGE - WOMEN

1 1/2" = 1'-0" 10


12" EA. SIDE
6"
1/2"
1/2"
OPAQUE COLORED ACRYLIC PLASTIC BACKING
CLEAR ACRYLIC PLASTIC
GRAPHIC PAINTED ON INTERIOR FACE OF CLEAR PLASTIC
RADIUS CORNER, TYP.
BACKGROUND COLOR SHALL CONTRAST 70% WITH DOOR COLOR. WHEN ISA IS USED, COLOR TO BE BLUE IN COLOR EQUAL TO 15090 PER FEDERAL STD. 595B
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AT ALL RESTROOMS, WHITE IN COLOR

MENS/BOYS

NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FINISH FLOOR LINE TO CENTER OF SIGN.

TOILET ROOM DOOR SIGNAGE - MEN

1 1/2" = 1'-0" 5

1. ENTRANCES AND DOORWAYS: (REFER TO DETAIL 15/GEN-3)

A. PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE DISABLED.

B. RECESSED DOOR MATS SHALL BE ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIRS.

C. ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE SIGN (INTERNATION SYMBOL OF ACCESSIBILITY) AND WITH ADDITIONAL DIRECTIONAL SIGNS AS REQUIRED VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

D. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL BE A MINIMUM 60" SQUARE IN THE DIRECTION OF THE DOOR SWING AND A MINIMUM 44" SQUARE OPPOSITE THE DIRECTION OF DOOR SWING. THE SQUARES SHALL BE MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. SEE NOTE E BELOW FOR STRIKE SIDE CLEARANCES.

E. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS.

F. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED NO GREATER THAN 1:2.

G. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, MUST HAVE AT LEAST 48" OF CLEAR SPACE FROM ANY DOOR OPENING INTO THE VESTIBULE WHEN THE DOOR IS OPEN 90 DEGREES FROM ITS CLOSED POSITION. DOOR IN SERIES MUST SWING IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.

H. WHERE A PAIR OF DOORS, MANUALLY OR AUTOMATICALLY OPERATED, IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING 32" WIDE W/ THE LEAF POSITIONED 90 DEGREES FROM ITS CLOSED POSITION.

I. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTMOATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO OPEN BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATED A TRAP OR HAZARDOUS CONDITION.

J. MAXIMUM EFFORT TO OPERATED DOORS SHALL NOT EXCEED 5 LB. SUCH PULL OR PUSH EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.

2. SANITARY FACILITIES: (REFER TO DETAIL 3/GEN-4

A. WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32" INCHES WHEN LOCATED AT THE END AND 34" INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITION AT AN ANGLE OF 90 DEGREES AWAY FROM ITS CLOSED POSITION.

B. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WIRST. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44" INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT.

C. WHERE URINALS ARE PROVIDED AT LEAST ONE WITH A RIM PROJECTING A MINIMUM OF 14 INCHES FROM THE WALL AND AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR SHALL BE PROVIDED.

D. URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT.

E. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED.

F. FAUCET CONTROLS AND OPEARTING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS PER FOOT. LEVEL OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

G. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF GLASS NOT MORE THAN 40 INCHES ABOVE THE FLOOR.

H. LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40 INCHES FROM THE FLOOR.

I. LOCATE TOILET TISSUE DISPENSERS ON THE WALL OR PARTITION WITHIN 7"-9" CENTERLINE OF THE FRONT EDGE OF THE TOILET SEAT AT A MINIMUM HEIGHT OF 19 INCHES AND 36 INCHES MAXIMUM TO THE FAR EDGE FROM THE REAR WALL (CBC 11B-308.3.2)

J. GRAB BARS, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LB. LOAD.

K. GRAB BARS (REFER DETAIL 19/GEN-4):
    1) THE DIAMETER OR WIDTH OF THE GRIPPING SURFACE OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE EQUIVALENT GRIPPING SURFACE.
    2) IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND GRAB BARS SHAL LBE 1-1/2".
    3) A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
    4) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
    5) EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

L. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

3. SWITCHES, CONTROLS AND ELECTRICAL OUTLETS: (REFER TO DETAIL 15/GEN-4)

A. ELECTRICAL AND COMMUNICATION SYSTEMS OUTLETS SHALL BE MOUNTED NOT LESS THAN 15 INCHES ABOVE THE FLOOR OR WORKING PLATFORM.

B. THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NOT LESS THAN 15 INCHES NOR MORE THAN 4 FEET ABOVE THE FLOOR OR WORKING PLATFORM AT BOTH FORWARD AND PARALLEL APPROACH.

C. IF REACH IS OVER AN OBSTRUCTION (FOR EXAMPLE, A BASE CABINET) BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" FOR FORWARD APPROACH. FOR SIDE APPROACH PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 46". THE OBSTURCTION MAY NOT EXTEND MORE THAN 24" FROM THE WALL BENEATH THE CONTROL.

D. FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.

E. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.

4. ACCESSIBLE TOILET COMPARTMENTS:

A. SEE TOILET ROOM FLOOR PLAN FOR ACCESSIBLE TOILET STALL LOCATION.
B.VERIFY TOILET ACCESSORIES & TYPE OF PARTITION IN SPECS.
C. PROVIDE BACKING IN WALL & TOILET PARTITION FOR GRAB BAR ANCHORAGE.
D. COMPARTMENT DOOR TO PROVIDE MINIMUM 18" STRIKE-SIDE CLEARANCE (CBC 11B604.8.1).
E. DOOR PULL AT ACCESSIBLE COMPARTMENT SHALL COMPLY WITH CBC SECTION 11B-404.2.7 AND NOT REQUIRE GRASPING OR TWISTING.
F. OPENING HARDWARE IS CENTERED BETWEEN 34" AND 44" ABOVE FINISH FLOOR (CBC 11B-404.2.7).
G. TOILET PAPER DISPENSER SHALL PERMIT CONTINUOUS PAPER FLOW AND SHALL NOT CONTROL DELIVERY (CBC 11B-604.9.6).
H. ACCESSIBLE COMPARTMENT DOOR EQUIPPED WITH AN AUTOMATIC CLOSING DEVICES (3 SECONDS MIN. SWEEP TIME FROM OPEN POSITION OF 70 DEGREES TO A POINT 3" FROM THE LATCH).
I. SEE ACCESSIBILITY NOTES FOR ADDITIONAL REQUIREMENTS.
J. FLUSH CONTROL SHALL BE ON WIDE SIDE OF TOILET COMPARTMENT AT ALL ACCESSIBLE STALLS, TYP.
K. WHERE ONLY ONE TYPE OF TOILET FIXTURE OR ACCESSORY IS USED, IT SHALL BE POSITIONED FOR ACCESSIBILITY.

5. ADDITIONAL COMPLIANCE REQUIREMENTS:

A. COUNTERTOPS AND WORK SURFACES SHALL BE ACCESSIBLE (HEIGHT BETWEEN 28" AND 34" AFF) W/ ACCESSIBLE CLEAR SPACE BELOW PER CBC 11B-902.1.

B. WARNING SYSTEMS SHALL COMPLY WITH NFPA 72 AND 72G (AS AMENDED BY CHAPTER 35) AND SHALL PROVIDE VISUAL ALARMS (I.E. STROBES) IN RESTROOMS, CORRIDORS, MULTI-PURPOSES ROOMS, LOBBIES, MEETING ROOMS, AND ANY OTHER COMMON USE ROOMS (CBC 1007.12).

9. DRINKING FOUNTAINS: (TO COMPLY WITH SECTION *Section 1139A* REFER TO DETAIL 16/GEN-4)

1139A.L GENERAL. DRINKING FOUNTAINS AND WATER COOLERS IN COMMON USE AREAS AND/OR SITES SHALL COMPLY WITH THIS SECTION. A SIDE APPROACH DRINKING FOUNTAIN IS NOT ACCEPTABLE.
1139A.2 ACCESSIBLE ROUTE. DRINKING FOUNTAINS AND WATER COOLERS SHALL BE ON AN ACCESSIBLE ROUTE.
1139A.3 DEPTH. DRINKING FOUNTAINS SHALL BE A MINIMUM OF 18 INCHES AND A MAXIMUM OF 19 INCHES IN DEPTH.
1139A.4 CLEAR FLOOR SPACE. DRINKING FOUNTAINS SHALL BE PROVIDED WITH 30 INCHES BY 48 INCHES CLEAR FLOOR SPACE, CENTERED ON THE UNIT. THE CLEAR FLOOR .LJPACE SHALL BE POSITIONED FOR A FORWARD APPROACH.
1139AA.L KNEE A"D TOE SPACE. DRINKING FOUNTAINS SHALL BE PROVIDED WITH A CLEAR AND UNOBSTRUCTED KNEE AND TOE .}PACE. KNEE AND TOE SPACE SHALL COMPLY WITH SECTION 1J38A.2.
1139A.5 SPOUT LOCATIO". THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
1139A.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4 INCHES HIGH TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHEN SPOUTS ARE LOCATED LESS THAN 3 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHEN SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.
1139A.7 CONTROLS AND OPERATING MECHANISMS. THE FLOW OF WATER SHALL BE ACTIVATED BY MANUALLY OR ELECTRONICALLY OPERATED CONTROLS. THE MANUALLY OPERATED CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED, LOCATED WITHIN 6 INCHES OF THE FRONT EDGE OF THE FOUNTAIN. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N).
1139A.8 LOCATION. DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES, BETWEEN WING WALLS OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS. THE ALCOVE OR OTHERWISE PROTECTED AREA IN WHICH THE DRINKING FOUNTAIN IS LOCATED SHALL NOT BE LESS THAN 32 INCHES IN WIDTH AND 18 INCHES IN DEPTH. WHEN THE DEPTH OF THE PROTECTED AREA WHERE THE DRINKING FOUNTAIN IS LOCATED EXCEEDS 24 INCHES, ADDITIONAL MANEUVERING CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION J138A.1.4.2 WHEN PROVIDED, WING WALLS SHALL PROJECT OUT FROM THE SUPPORTING WALL AT LEAST AS FAR AS THE DRINKING FOUNTAIN TO WITHIN 6 INCHES VERTICALLY FROM THE FINISH FLOOR.

COMMON AREA ACCESSIBILITY NOTES1

1:1 1

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Robert M. Simons
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS EY SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: _GEN-4
SHEET TITLE:

ACCESSIBLITY COMPLIANCE

ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

LEGEND

T.C.	TOP OF CONCRETE CURB	C	CUT
F.S.	FINISHED CONCRETE SURFACE	F	FILL
A.C.	ASPHALTIC CEMENT PAVEMENT	D/L	DAY LIGHT
F.L.	FLOW LINE	S.D.M.H.	STORM DRAIN MANHOLE
F.G.	FINISHED GRADE OF DIRT	R.C.P.	REINFORCED CONCRETE PIPE
F.F.	FINISHED FLOOR OF BUILDING	C.L.F.	CHAIN LINK FENCE
B.S.	BACK OF SIDEWALK	I.C.V.	IRRIGATION CONTROL VALVE
E.G.	EDGE OF GUTTER	I.C.B.	IRRIGATION CONTROL BOX
E.P.	EDGE OF A.C. PAVEMENT	G.P.	GUARD POST
G.B.	GRADE BREAK	W.I.F.	WROUGHT IRON FENCE
H.P.	HIGH POINT	R.O.H.	BUILDING ROOF OVERHANG
T.B.	TOP OF BERM	T.S.P.	TRAFFIC SIGNAL POLE
INV.	INVERT	P.B.	PULL BOX
ℙ	PROPERTY LINE	P.A.	LANDSCAPED PLANTER AREA
℄	CENTER LINE	T.P.B.	TELEPHONE PULL BOX
T.W.	TOP OF WALL	T.M.H.	TELEPHONE MANHOLE
T.R.W.	TOP OF RETAINING WALL	E.P.B.	ELECTRIC PULL BOX
T.F.	TOP OF FOOTING	T.S.C.	TRAFFIC SIGNAL CONDUIT
TOG	TOP OF DRAIN BOX GRATE	S.L.C.	STREET LIGHT CONDUIT
▨	EDGE OF A.C. PAVEMENT	T.S.P.B.	TRAFFIC SIGNAL PULL BOX
——→	CONCENTRATED FLOW LINE	T.S. PED.	TRAFFIC SIGNAL PEDESTAL
~→	SHEET FLOW DRAINAGE	B.F.D.	BACKFLOW PREVENTION DEVICE
T/HDWL.	TOP OF HEADWALL	T.E.	TRASH ENCLOSURE
(02.20)	EXISTING ELEVATION	P.M.	ELECTRIC PAD MOUNT TRANSFORMER
– (02) –	EXISTING CONTOUR ELEVATION	C.B.	CATCH BASIN
02.20	PROPOSED ELEVATION	R.D.	ROOF DRAIN
——02——	PROPOSED CONTOUR ELEVATION	——R——	RIDGE LINE
I.D.	INSIDE DIAMETER	——GB——	GRADE BREAK LINE
O.D.	OUTSIDE DIAMETER	P.O.C.	POINT OF CONNECTION
——G——	GAS MAIN	—10 LINES—	NUMBER OF OVERHEAD UTILITY LINES
——W——	WATER MAIN	RC. W.	RECLAIMED WATER
——S——	SANITARY SEWER	PSD	PERFORATED STORM DRAIN
——E——	UNDERGROUND ELECTRICAL CONDUIT	F.C.D.	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
——T——	UNDERGROUND TELEPHONE CONDUIT	T.O.P.	TOP OF PIPE
——SD——	STORM DRAIN	OH	OVERHEAD
——CTV——	UNDERGROUND CABLE TELEVISION CONDUIT	GW	GUY WIRE
——TSC——	TRAFFIC SIGNAL CONDUIT	$\boxed{6}$	MINIMUM HEIGHT OF EXPOSED SITE RETAINING WALL TO THE NEAREST FOOT
W.V.	WATER VALVE	T.S.W.	TOP OF SEAT WALL
W.M.	WATER METER	FAC	FIRE ALARM CONDUIT
F.H.	FIRE HYDRANT	FAPB	FIRE ALARM PULL BOX
G.M.	GAS METER	COMM	COMMUNICATION LINE
S.M.H.	SANITARY SEWER MANHOLE	MPG	MEDIUM PRESSURE GAS LINE
P.P.	POWER POLE	MTL	TOP OF METAL BLEACHERS
S.L.	STREET LIGHT	TGS	TOP OF 2" THICK GOPHER SLURRY UNDER MODULAR BUILDING
C.O.	CLEANOUT		
I.P.	IRON PIPE		
L.P.	LIGHT POLE		

ENGINEER'S ESTIMATED ONSITE EARTHWORK QUANTITIES

1. RAW CUT (INCLUDES AN ASSUMED ALLOWANCE 800 C.Y. FOR FOOTING, STORM DRAIN, AND UTILITY SPOILS)	2,500 CU. YDS.
2. OVEREXCAVATE UPPER 5 FEET UNDER THE NEW BUILDING AND BLEACHER ENVELOPE (21,000 S.F.)	3,900 CU. YDS.
3. OVEREXCAVATE UPPER 1 FOOT (ASSUMED AVERAGE DEPTH) UNDER THE NEW HARDSCAPE AREAS (32,000 S.F.)	1,200 CU. YDS.
4. TOTAL CUT	$\boxed{\text{7,600 CU. YDS.}}$
5. RAW FILL	90 CU. YDS.
6. SHRINKAGE OF RAW FILL (NO. 5 ABOVE) USING AN ASSUMED 13% SHRINKAGE LOSS	10 CU. YDS.
7. RECOMPACTION OF OVEREXCAVATED SOIL (NO. 2 AND 3 ABOVE) USING AN ASSUMED 13% SHRINKAGE LOSS	5,800 CU. YDS.
8. TOTAL COMPACTED FILL	$\boxed{\text{5,900 CU. YDS.}}$
9. ESTIMATED AMOUNT OF SOIL TO EXPORT FROM THE SITE	$\boxed{\text{1,700 CU. YDS.}}$

NOTE: THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THEIR OWN EARTHWORK QUANTITIES FOR BIDDING PURPOSES. THE QUANTITIES SHOWN HEREON ARE THE ENGINEER'S ESTIMATE ONLY.

AVAILABLE FIRE FLOW TESTS

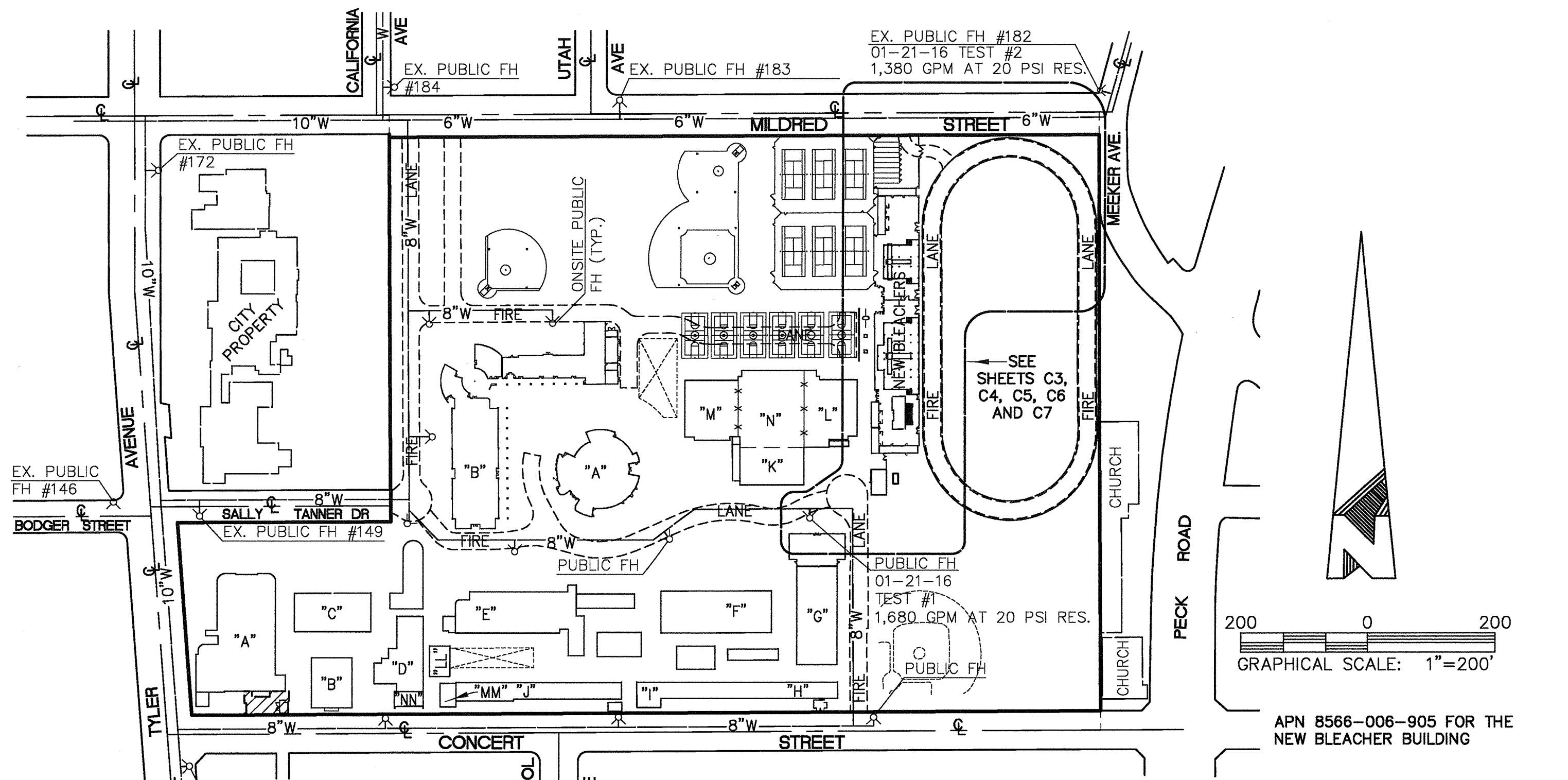
A. TWO FIRE FLOW TESTS MEASURED JANUARY 21, 2016 AT 9:15 AM BY THE CITY OF EL MONTE IN FRONT OF THE LOS ANGELES COUNTY FIRE DEPARTMENT INSPECTOR #341A ANGEL VALTIERRA (562)696-3915 WITH THE FOLLOWING RESULTS:

PUBLIC FIRE HYDRANT ONSITE TEST #1
THE FLOW HYDRANT IS LOCATED NORTH OF THE SCIENCE WING BUILDING G.

STATIC PRESSURE	60 PSI
OBSERVED FLOW	GPM
OUTLET SIZE	2.5"
PITOT READING	35 PSI
RESIDUAL PRESSURE	45 PSI
CALCULATED FLOW @ 20 PSI	1,680 GPM

PUBLIC FIRE HYDRANT OFFSITE TEST #2
THE FLOW HYDRANT IS LOCATED ON MILDRED STREET AT MEEKER AVENUE.

STATIC PRESSURE	60 PSI
OBSERVED FLOW	GPM
OUTLET SIZE	2.5"
PITOT READING	32 PSI
RESIDUAL PRESSURE	40 PSI
CALCULATED FLOW @ 20 PSI	1,380 GPM



APN 8566-006-905 FOR THE NEW BLEACHER BUILDING

EXISTING CITY OF EL MONTE WATER DEPARTMENT PUBLIC FIRE HYDRANT

EXISTING SITE PLAN INDEX MAP
SCALE: 1"=200'

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF EXISTING UTILITY FACILITIES AND/OR INSTALLATION OF TEMPORARY UTILITY FACILITIES, AT ALL TIMES, INCLUDING THE GRADING OF OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL AND NEW HARDSCAPE SITE IMPROVEMENTS.
2. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITH THE REQUIREMENT OF UPDATING THE AS-BUILTS TO ACCURATELY REFLECT THE LOCATION OF ALL UNDERGROUND UTILITIES.
3. PRIVATE ENGINEER'S NOTICE TO CONTRACTOR:
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.
4. CONTRACTOR TO BE RESPONSIBLE FOR POTHOLING ALL EXISTING UTILITIES WHICH ARE TO REMAIN, TO BE RELOCATED, OR TO BE REMOVED SO AS TO GET A CLEAR UNDERSTANDING OF EXISTING CONDITIONS AND WHAT WILL BE REQUIRED TO ACHIEVE THE PROPOSED PROJECT DESIGN PRIOR TO COMMENCING ANY NEW SITE, GRADING, AND UTILITY CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR RELOCATING ALL UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION INCLUDING THE OVEREXCAVATION AND RECOMPACTION OF LOOSE UNCOMPACTED SOIL. CONTRACTOR TO BE RESPONSIBLE FOR PAYMENT OF FEES TO THE UTILITY COMPANIES FOR THEIR SERVICES IN CONJUNCTION WITH THE RELOCATION OF THEIR LINES. CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITY SERVICES AT ALL TIME EXCEPT DURING PRE-APPROVED HOURS OF DISCONNECT DESCRIBED IN NOTE 7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING IN PLACE ALL EXISTING ACTIVE UTILITIES, AS WELL AS THE NEWLY RELOCATED UTILITIES, DURING ALL PHASES OF CONSTRUCTION AND GRADING OF THIS PROJECT TO INCLUDE, BUT NOT BE LIMITED TO USING SHORING METHODS.
5. CONTRACTOR SHALL PROVIDE A WRITTEN PROCEDURE AND SCHEDULE TO CLEAR AND PROTECT ALL UTILITY LINES FOR ADVANCED APPROVAL BY THE SCHOOL DISTRICT CONSTRUCTION MANAGER.
6. CONTRACTOR SHALL NOT COMMENCE ANY OFFSITE DEMOLITION OR CONSTRUCTION IN PUBLIC STREETS UNTIL THEY OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF EL MONTE.
7. A TWO WEEK NOTICE OF ANY EXISTING UTILITY DISCONNECT SHALL BE PROVIDED TO THE SCHOOL DISTRICT CONSTRUCTION MANAGER. UNLESS OTHERWISE APPROVED IN ADVANCE, THE DISCONNECT CAN ONLY BE PERFORMED DURING A 48 HOUR PERIOD STARTING EARLY SATURDAY MORNING SO AS TO BE FULLY OPERATIONAL EARLY MONDAY MORNING.
8. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY PROPOSED POINTS OF CONNECTION AND ALL UTILITY CONFLICTS WITH PROPOSED PIPING TO VERIFY LOCATION, SIZE, ELEVATION AND TYPE OF PIPE MATERIAL PRIOR TO INSTALLING ANY NEW UTILITY OR STORM DRAIN PIPE IN ORDER TO RESOLVE ANY AND ALL POTENTIAL CONFLICTS WITH THE PROPOSED PIPE. RELOCATE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED PIPE.
9. ALL PROPOSED UTILITY DEMOLITION WORK SHOWN HEREON SHALL BE COORDINATED WITH THEIR RESPECTIVE UTILITY DRAWINGS BY THE CONTRACTOR TO ELIMINATE ANY CONFLICTS AND PROVIDE SERVICE TO THE NEW AND EXISTING BUILDINGS AS REQUIRED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND WORKING AROUND EXISTING FIELD CONDITIONS AT NO ADDITIONAL COST AS NON-RELATED CONSTRUCTION ACTIVITIES NOT A PART OF THIS CONTRACT ARE, AND WILL BE, IN PROGRESS.
11. CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING ONSITE AND OFFSITE CONCRETE AND ASPHALT AS REQUIRED TO INSTALL THE PROPOSED UTILITIES. RECONSTRUCT ONSITE AND OFFSITE CONCRETE AND ASPHALT TO MATCH EXISTING WITH A DEPTH OF ONE INCH THICKER THAN EXISTING. COMPLY WITH CITY OF EL MONTE STANDARDS FOR TRENCH BACKFILL AND PAVEMENT REPLACEMENT FOR THE NEW CITY WATER DEPARTMENT WATER IMPROVEMENTS. REPLACE DISTURBED IRRIGATION, LANDSCAPING, AND DG WHICH IS TO REMAIN IN PLACE IN THE FUTURE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING. REMOVE CONFLICTING EXISTING TREES AFTER CONFIRMING WITH DISTRICT CONSTRUCTION MANAGER AND ARCHITECT THAT THEY CAN NOT BE SAVED DUE TO FUTURE CONSTRUCTION.
12. CITY OF EL MONTE WATER DEPARTMENT WILL BE INSTALLING THEIR NEW OFFSITE PUBLIC WATER METER AND IMPROVEMENTS SHOWN ON THESE PLANS WITH FEES PAID BY THE SCHOOL DISTRICT TO THE CITY DIRECTLY. THE BACKFLOW AND RELATED PRIVATE ONSITE WATER IMPROVEMENTS SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING AND NEW CITY WATER DEPARTMENT OWNED WATER IMPROVEMENTS WITHIN THE AREA OF NEW CONSTRUCTION.
13. THE EXACT LOCATION OF THE EXISTING UTILITIES ARE NOT KNOWN AND SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF LOCATING AND VERIFYING THE SIZES AND DEPTH OF UNDERGROUND PIPES.
14. LOCATIONS OF EQUIPMENT, PLUMBING FIXTURES, PIPES, ETC. ARE APPROXIMATE AND ARE INDICATED FOR REFERENCE ONLY. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD.
15. IF INVERT IS NOT ADEQUATE TO ACCEPT THE NEW SEWER LINE ELEVATIONS SHOWN HEREON, ADVISE THE ARCHITECT AND ENGINEER IMMEDIATELY.
16. UTILITY SERVICES TO ALL POINTS OF THE CAMPUS SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY ALLOWED BY THE SCHOOL DISTRICT REPRESENTATIVE.
17. EXACT ROUTING AND TRENCHING FOR THE PIPES SHALL BE APPROVED BY THE SCHOOL REPRESENTATIVE.
18. ALL NECESSARY TRENCHING, CUTTING, BACKFILLING, AND PATCHING IS PART OF THIS SCOPE OF WORK.
19. THE INSTALLATION OF ALL UTILITIES AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS FOR THE PROTECTION OF EXISTING TREES.
20. CONTRACTOR SHALL FLUSH ALL SEWER AND STORM DRAIN PIPE OF ALL SOIL AND DEBRIS AND PROVIDE A VIDEO AT THE END OF THE JOB AS A RECORD OF THE AS-BUILT PIPE.
21. CONTRACTOR SHALL CONFIRM THE LOCATION, SIZE AND ELEVATION OF EACH UTILITY AND STORM DRAIN PIPE AT THE SITE OR BUILDING POINT OF CONNECTION PRIOR TO INSTALLING ANY NEW SITE UTILITY OR STORM DRAIN PIPE.
22. IT IS RECOMMENDED THAT THE CONTRACTOR DIG THE NEW UTILITY AND STORM DRAIN PIPE TRENCH AND EXPOSE ALL EXISTING UTILITY AND STORM DRAIN PIPE CONFLICTS BEFORE INSTALLING ANY NEW UTILITY OR STORM DRAIN PIPE.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE NEW WET AND DRY UTILITY AND STORM DRAIN PIPE SO AS TO NOT HAVE ANY CONFLICT IN THE FIELD. THE LOCATIONS SHOWN ON THE PLANS ARE THE ENGINEER'S BEST ATTEMPT TO PREPARE A MAP SHOWING THE NEW COMPOSITE SEWER, STORM DRAIN, AND WATER IMPROVEMENTS IN RELATION TO THEMSELVES AND THE EXISTING CAMPUS UTILITY AND STORM DRAIN IMPROVEMENTS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE TO THE EXISTING BUILDINGS BY PERFORMING FIELD INVESTIGATION BOTH INSIDE AND OUTSIDE OF THE BUILDINGS AND INSTALLING THE NECESSARY NEW UTILITY AND STORM DRAIN LINES AS REQUIRED. THE INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DRAWINGS AND A SURFACE INVESTIGATION OF THE SITE AND DOES NOT NECESSARILY REPRESENT SUBSURFACE OR HIDDEN AS-BUILT CONDITIONS.

BENCH MARK

DATUM: COUNTY OF LOS ANGELES

FD. L & TK. (TAG GONE) IN LIEU OF DPW BM TAG FITS DESCRIPTION "BM" AT CURB FACE IN EAST CATCH BASIN OF PECK ROAD 1M SOUTH OF BCR, 12.2M EAST OF CENTERLINE & 21M SOUTH OF CENTERLINE OF MEEKER ROAD.

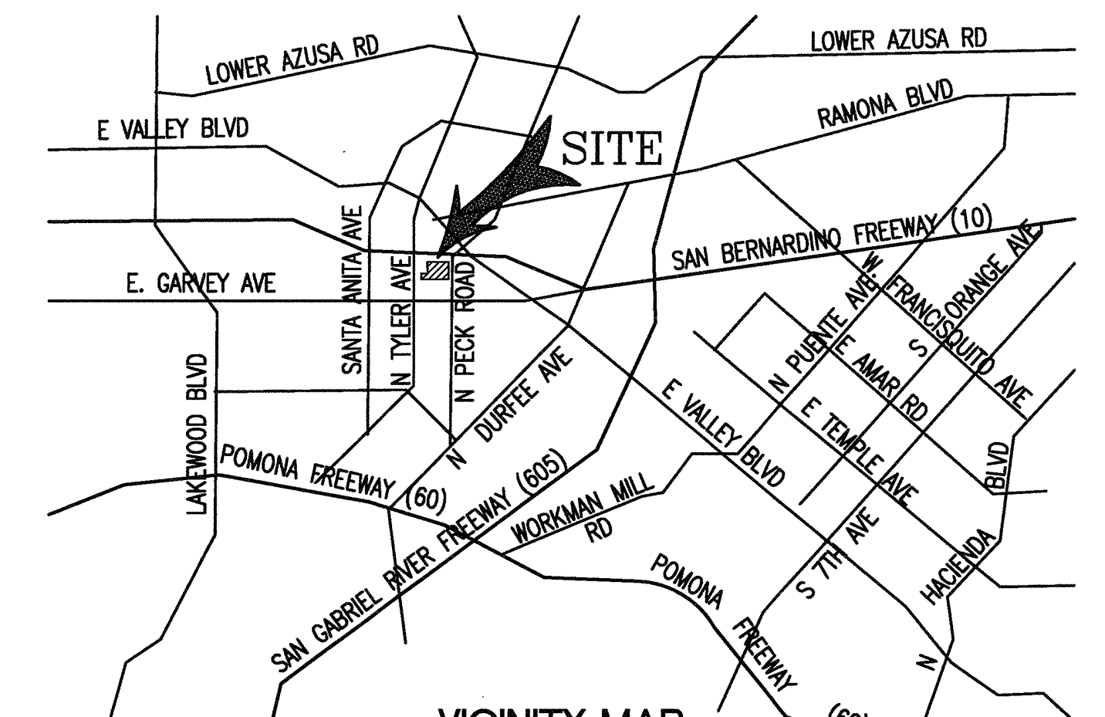
B.M. NO. G 4896 ELEV.=278.369 FEET (1995 ADJUSTMENT)

UTILITY CONTACTS

ELECTRIC	
SOUTHERN CALIFORNIA EDISON 1000 POTRERO GRANDE DRIVE MONTEREY PARK, CA. 91754	ALFONZO STUBBS PLANNER (323) 720-5260
NATURAL GAS	
THE GAS COMPANY – NORTHERN REGION 9400 OAKDALE AVENUE, SC9331 CHATSWORTH, CA. 91311-6511	EDWARD HALE PLANNING ASSOCIATE (818) 701-4594 FAX (818) 701-3380
TELEPHONE	
AT&T 8633 GRAND AVENUE ROSEMEAD, CA. 91770-1220	ROLAND LEW BIC ENGINEER (626) 570-7035
CABLE TELEVISION	
TIME WARNER CABLE 15255 SALT LAKE AVENUE INDUSTRY, CA. 91745	JEFF FLACO CONSTRUCTION SUPERVISOR (626) 855-3349
SANITARY SEWER	
CITY OF EL MONTE SEWER DEPARTMENT 3527 SANTA ANITA AVENUE EL MONTE, CA. 91731	CARLOS LOPEZ (626) 580-2250 FAX (626) 580-2253
DOMESTIC WATER	
CITY OF EL MONTE WATER DEPARTMENT 3527 SANTA ANITA AVENUE EL MONTE, CA. 91731	BRIAN HELLEIN WATER SYSTEMS SUPERVISOR (626) 580-2250 FAX (626) 580-2253 60-70 PSI STATIC PRESSURE FOR THE CITY WATER LINES 60 PSI STATIC PRESSURE AT THE ONSITE PRIVATE 3" BACKFLOW PREVENTER AT SCIENCE BUILDING "G"
STORM DRAIN	
CITY OF EL MONTE 3527 SANTA ANITA AVENUE EL MONTE, CA. 91731	CARLOS LOPEZ (626) 580-2250 FAX (626) 580-2253

INDEX SHEETS

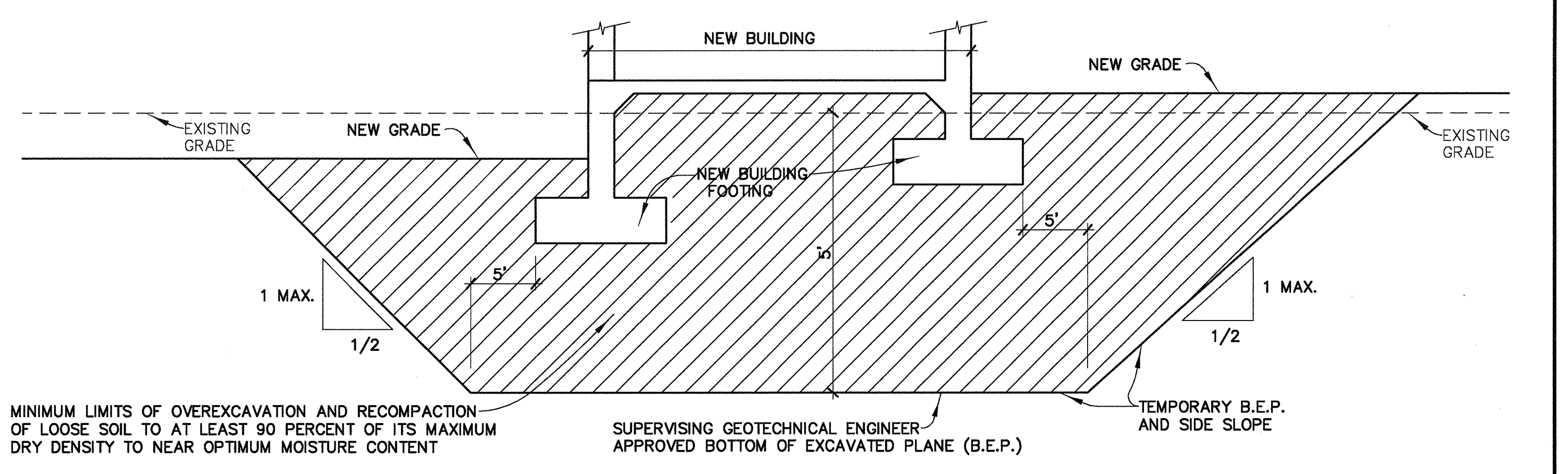
NO.	SHEET TITLE
C1	GRADING, DRAINAGE, STORM DRAIN AND UTILITY PLAN TITLE SHEET
C2	DETAIL SHEET
C3	DEMOLITION PLAN
C4	GRADING AND DRAINAGE PLAN
C5	STORM DRAIN AND UTILITY PLAN
C6	EROSION CONTROL PLAN
C7	PARTIAL SITE TOPOGRAPHY SURVEY MAP
C8	DETAIL SHEET
C9	DETAIL SHEET
C10	DETAIL SHEET



VICINITY MAP
NOT TO SCALE

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.


NEW BUILDING
NEW GRADE
EXISTING GRADE
NEW GRADE
EXISTING GRADE
NEW BUILDING FOOTING
5'
5'
5'
1 MAX.
1/2
1 MAX.
1/2
MINIMUM LIMITS OF OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL TO AT LEAST 90 PERCENT OF ITS MAXIMUM DRY DENSITY TO NEAR OPTIMUM MOISTURE CONTENT
SUPERVISING GEOTECHNICAL ENGINEER APPROVED BOTTOM OF EXCAVATED PLANE (B.E.P.)
TEMPORARY B.E.P. AND SIDE SLOPE

TYPICAL BUILDING OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL SECTION
NOT TO SCALE

Underground Service Alert
Call: Toll Free
811
TWO WORKING DAYS BEFORE YOU DIG

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT
PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS
CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS KH SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: C1
SHEET TITLE:

GRADING, DRAINAGE, STORM DRAIN AND UTILITY PLAN TITLE SHEET

SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C1gdpts

5/6/2016 5:17:46 PM, MSL ENGINEERING, INC. PRINT/PLOT DATE (gb)

SELECT CONCRETE RELATED SPECIFICATIONS

1. QUALITY ASSURANCE.
   A. PERFORM WORK IN ACCORDANCE WITH ACI 117 AND 301.
   B. OBTAIN MATERIALS FROM SAME SOURCE THROUGHOUT.

2. QUALIFICATIONS.
   A. MANUFACTURER: MANUFACTURER OF READY-MIX CONCRETE PRODUCTS COMPLYING WITH ASTM C94 REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT. CERTIFIED ACCORDING TO NATIONAL READY MIX CONCRETE ASSOCIATION'S PLANT CERTIFICATION PROGRAM.
   B. INSTALLER: COMPANY WHO HAS COMPLETED PAVEMENT WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT.

3. REGULATORY REQUIREMENTS.
   A. CONFORM TO APPLICABLE CODE FOR PAVING WORK ON PUBLIC PROPERTY.
   B. CONFORM TO (CBC) CALIFORNIA BUILDING CODE, (CCR) TITLE 24, PART 2, AND ADAAG FOR ACCESS REQUIREMENTS FOR INDIVIDUALS WITH DISABILITIES.

4. CONCRETE MATERIALS.
   A. CEMENT: ASTM C150 NORMAL-TYPE I PORTLAND TYPE, GRAY COLOR, FROM SINGLE SOURCE THROUGHOUT PROJECT.
   B. FINE AND COARSE AGGREGATES: ASTM C33, NON-REACTIVE WHEN TESTED IN ACCORDANCE WITH ASTM C289 AND APPENDIX X-1 OF ASTM C33.
   C. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.

5. BASE MATERIALS.
   A. AGGREGATE BASE: CRUSHED MISCELLANEOUS BASE CONFORMING TO SECTION 200-2.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

6. REINFORCEMENT.
   A. REINFORCING STEEL: ASTM A615; 60 KSI YIELD GRADE; DEFORMED BILLET STEEL BARS, UNCOATED FINISH.
   B. WELDED STEEL WIRE FABRIC: PLAIN TYPE, ASTM A185; IN COILED ROLLS OR FLAT SHEETS; UNCOATED FINISH.
   C. FABRICATED BAR MATS: ASTM A184; WELDED OR CLIP-ASSEMBLED STEEL BAR MATS OF ASTM A615, GRADE 60 STEEL BARS.
   D. TIE WIRE: ASTM A82, ANNEALED STEEL, MINIMUM 16 GAGE SIZE.
   E. DOWELS: ASTM A615; 40 KSI YIELD GRADE, PLAIN STEEL, UNCOATED FINISH.
   F. SUPPORTS: CHAIRS, SPACERS, DOWEL BAR SUPPORTS AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCING BARS, WELDED WIRE FABRIC, AND DOWELS IN PLACE.

7. ACCESSORIES.
   A. CURING COMPOUND: ASTM C309, TYPE 1-D, CLASS B.
   B. PREFORMED JOINT: ASTM D1751, 3/8 INCH THICK.
   C. JOINT SEALERS: ASTM C1193, INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

8. ADMIXTURES.
   A. AIR ENTRAINMENT: ASTM C260.
   B. FLY ASH: ASTM C618, CLASS F.
   C. WATER REDUCING ADMIXTURE: ASTM C494, TYPE A.
   D. COLORED CONCRETE PIGMENT: ASTM C979 OF COLOR SELECTED.

9. CONCRETE MIX.
   A. MIX CONCRETE IN ACCORDANCE WITH ASTM C94, ALTERNATIVE NO. 3.
   B. PROVIDE CONCRETE OF THE FOLLOWING CHARACTERISTICS:
      1. SIDEWALKS, PAVEMENT, AND BASKETBALL COURTS: COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.
      2. SLUMP: 4 INCHES MAXIMUM.
      3. MAXIMUM AGGREGATE SIZE: 1 INCH.
      4. CEMENT CONTENT: MINIMUM 540 LBS/CU. YD.
      5. FLY ASH: MAXIMUM 25 PERCENT BY WEIGHT.
      6. AIR ENTRAINMENT: 2 TO 4 PERCENT.
      7. WATER CEMENT RATIO: 0.45.
      8. INTEGRAL COLORING: WHERE INTEGRAL COLOR IS DESIGNATED, PROVIDE 5 POUNDS OF COLORED PIGMENT PER SACK OF CEMENT.

10. INSPECTION.
    A. VERIFY COMPACTED SUBGRADE IS READY TO SUPPORT PAVING AND IMPOSED LOADS.
    B. VERIFY GRADIENTS AND ELEVATIONS OF BASE ARE CORRECT.
    C. BEGINNING OF INSTALLATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
    C. PLACE CONCRETE FORMWORK ON PUBLIC PROPERTY IN CONFORMANCE WITH APPLICABLE CODE.
    D. ENSURE REINFORCEMENT, INSERTS, EMBEDDED PARTS, AND FORMED JOINTS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
    E. PLACE CONCRETE CONTINUOUSLY BETWEEN PREDETERMINED CONSTRUCTION JOINTS AND CONTROL JOINTS.
    F. DO NOT PUSH OR DRAG CONCRETE INTO PLACE OR USE VIBRATORS TO MOVE CONCRETE INTO PLACE.
    G. PLACING DURING WARM WEATHER: THE TEMPERATURE OF THE CONCRETE AS PLACED SHALL NOT EXCEED 85 DEGREES F EXCEPT WHERE AN APPROVED RETARDER IS USED. THE MIXING WATER AND/OR AGGREGATES SHOULD BE COOLED, IF NECESSARY, TO MAINTAIN A SATISFACTORY PLACING TEMPERATURE. THE PLACING TEMPERATURE SHALL NOT EXCEED 95 DEGREES F AT ANY TIME.

11. BASE.
    A. PREPARE AND COMPACT BASE MATERIALS IN ACCORDANCE WITH SECTION 200-2.2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

12. PREPARATION.
    A. MOISTEN BASE TO MINIMIZE ABSORPTION OF WATER FROM FRESH CONCRETE.
    B. COAT SURFACES OF ADJACENT MANHOLES, CATCH BASINS, INLETS, AND OTHER FIXED OBJECTS WITH OIL TO FORM ISOLATION JOINT AND PREVENT BOND WITH PAVING.

13. FORMING.
    A. PLACE AND SECURE FORMS TO CORRECT LOCATION, DIMENSION, AND PROFILE.
    B. ASSEMBLE FORMWORK TO PERMIT EASY STRIPPING AND DISMANTLING WITHOUT DAMAGING CONCRETE.
    C. PLACE JOINT FILLERS VERTICAL IN POSITION, IN STRAIGHT LINES. SECURE TO FORMWORK DURING CONCRETE PLACEMENT.

14. REINFORCEMENT.
    A. PLACE REINFORCEMENT AT MID-HEIGHT OF SLABS-ON-GRADE.
    B. LAP ADJOINING PIECES OF WELDED WIRE FABRIC ONE FULL MESH AND LACE SPLICE WITH WIRE. OFFSET LAPS OF ADJOINING SHEETS.
    C. PLACE FABRICATED BAR MATS IN LENGTHS AS LONG AS PRACTICAL. OVERLAP ADJACENT MAT 2 INCHES.
    D. INTERRUPT REINFORCEMENT AT EXPANSION JOINTS.
    E. PLACE REINFORCEMENT TO ACHIEVE SLAB AND CURB ALIGNMENT AS DETAILED.
    F. PROVIDE DOWELED JOINTS AT INTERRUPTION OF CONCRETE WITH ONE END OF DOWEL SET IN CAPPED SLEEVE TO ALLOW LONGITUDINAL MOVEMENT.

15. PLACING CONCRETE.
    A. PLACE CONCRETE IN ACCORDANCE WITH ACI 301.
    B. HOT AND COLD WEATHER PLACEMENT: ACI 301.
    C. PLACE CONCRETE FORMWORK ON PUBLIC PROPERTY IN CONFORMANCE WITH APPLICABLE CODE.
    D. ENSURE REINFORCEMENT, INSERTS, EMBEDDED PARTS, AND FORMED JOINTS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
    E. PLACE CONCRETE CONTINUOUSLY BETWEEN PREDETERMINED CONSTRUCTION JOINTS AND CONTROL JOINTS.
    F. DO NOT PUSH OR DRAG CONCRETE INTO PLACE OR USE VIBRATORS TO MOVE CONCRETE INTO PLACE.
    G. PLACING DURING WARM WEATHER: THE TEMPERATURE OF THE CONCRETE AS PLACED SHALL NOT EXCEED 85 DEGREES F EXCEPT WHERE AN APPROVED RETARDER IS USED. THE MIXING WATER AND/OR AGGREGATES SHOULD BE COOLED, IF NECESSARY, TO MAINTAIN A SATISFACTORY PLACING TEMPERATURE. THE PLACING TEMPERATURE SHALL NOT EXCEED 95 DEGREES F AT ANY TIME.

16. JOINTS.
    A. REVIEW LOCATIONS OF JOINTS WHEN INDICATED AND MAKE RECOMMENDATIONS FOR ANY ADDITIONAL JOINTS OR SUGGESTIONS FOR NEW LOCATIONS. LACK OF JOINTS OR MISPLACEMENT OF JOINTS WILL NOT CONSTITUTE JUSTIFICATION OF PAVEMENT CRACKING.
    B. PLACE CONSTRUCTION JOINTS AT INDICATED INTERVALS PER DRAWINGS TO CORRECT ELEVATION AND PROFILE.
    C. PLACE JOINT FILLER BETWEEN PAVING COMPONENTS AND BUILDING, CURB, DRAINAGE SWALE, OR OTHER APPURTENANCES. RECESS TOP OF FILLER FOR SEALANT PLACEMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
    D. PROVIDE CONTROL JOINTS AT INDICATED INTERVALS PER DRAWINGS.
    E. SAW CUT AND HAND TOOL CONTROL JOINTS 3/16 INCH WIDE AT AN OPTIMUM TIME AFTER FINISHING. CUT 1/3 INTO DEPTH OF SLAB.
    F. FINISH EACH EDGE OF JOINT WITH RADIUSED JOINTER TOOL.
    G. FORM ISOLATION JOINTS WHERE PAVING ABUTTS CURBS, SIDEWALKS, FOOTINGS, STRUCTURES, AND OTHER FIXED OBJECTS.

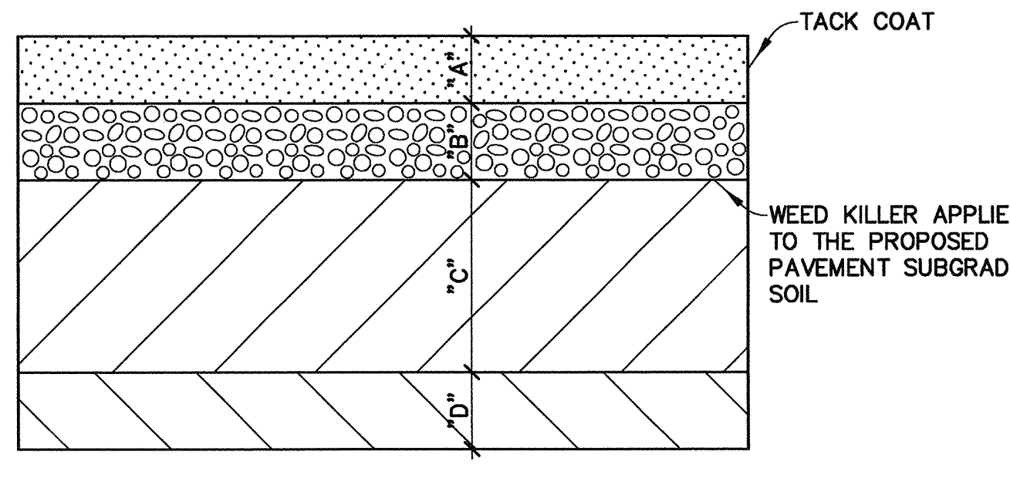
17. FINISHING.
    A. UNIFORMLY SPREAD, SCREED AND CONSOLIDATE CONCRETE. DO NOT SPREAD CONCRETE BY VIBRATION.
    B. MEDIUM BROOM FINISH:
       1. FLOAT SURFACE AND TROWEL TO SMOOTH EVEN FINISH.
       2. WHILE SURFACE IS STILL PLASTIC DRAW A SOFT FIBER BRISTLE BROOM UNIFORMLY OVER SURFACE IN PERPENDICULAR DIRECTION TO TRAFFIC.

18. CURING.
    A. CURE CONCRETE SURFACES IN ACCORDANCE WITH ACI 301.
    B. APPLY CURING COMPOUND ON FINISHED SLAB SURFACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

19. FIELD QUALITY CONTROL.
    A. FIELD INSPECTION AND TESTING WILL BE PERFORMED BY THE OWNER.
    B. OWNER'S INSPECTOR WILL TAKE CYLINDERS AND PERFORM SLUMP AND AIR ENTRAINMENT TESTS IN ACCORDANCE WITH ACI 301 AND WILL ARRANGE FOR PICK-UP OF CYLINDERS BY TESTING LABORATORY.
    C. THREE CONCRETE TEST CYLINDERS WILL BE TAKEN FOR EVERY 50 OR LESS CU YDS OF EACH CLASS OF CONCRETE PLACED EACH DAY.
    D. ONE SLUMP TEST WILL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
    E. MAINTAIN RECORDS OF PLACED CONCRETE ITEMS. RECORD DATE, LOCATION OF POUR, QUANTITY, AIR TEMPERATURE, AND TEST SAMPLES TAKEN.

20. TOLERANCES.
    A. PROVIDE TOLERANCES IN ACCORDANCE WITH ACI117.
    B. MAXIMUM VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET.
    C. MAXIMUM VARIATION FROM TRUE POSITION: 1/4 INCH.
    D. VARIATION OF PAVEMENT THICKNESS: PLUS 3/8 INCH, MINUS 1/4 INCH.
    E. MAXIMUM VARIATION OF PAVEMENT JOINTS: 1/8 INCH VERTICAL ALIGNMENT.
    F. FLOOD TEST: ALL CONCRETE BASKETBALL COURTS AND CONCRETE PAVEMENT SHALL BE GIVEN A FLOOD TEST. ALL CONCRETE WORK WHERE WATER PONDS MORE THAN 1/4 INCH AND DOES NOT RUN OFF OR EVAPORATE WITHIN A REASONABLE AMOUNT OF TIME NOT TO EXCEED 4 HOURS, THE CONCRETE WORK SHALL BE REMOVED TO THE NEAREST SCORE OR JOINT LINE AND REPLACED TO PROVIDE PROPER DRAINAGE.

21. PROTECTION.
    A. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY. PROVIDE TEMPORARY AND REMOVAL PROTECTION FOR INSTALLING PAVING. CONTROL ACTIVITY IN IMMEDIATE WORK AREA TO AVOID DAMAGE.
    B. DO NOT PERMIT TRAFFIC OVER PAVEMENT FOR 7 DAYS AFTER FINISHING.



"A" = 3" MINIMUM THICK ASPHALT CONCRETE PAVEMENT FOR PLAYGROUND AREAS, AND 4" MINIMUM THICK ASPHALT CONCRETE PAVEMENT FOR FIRE LANE AND DRIVING AISLE AREAS.

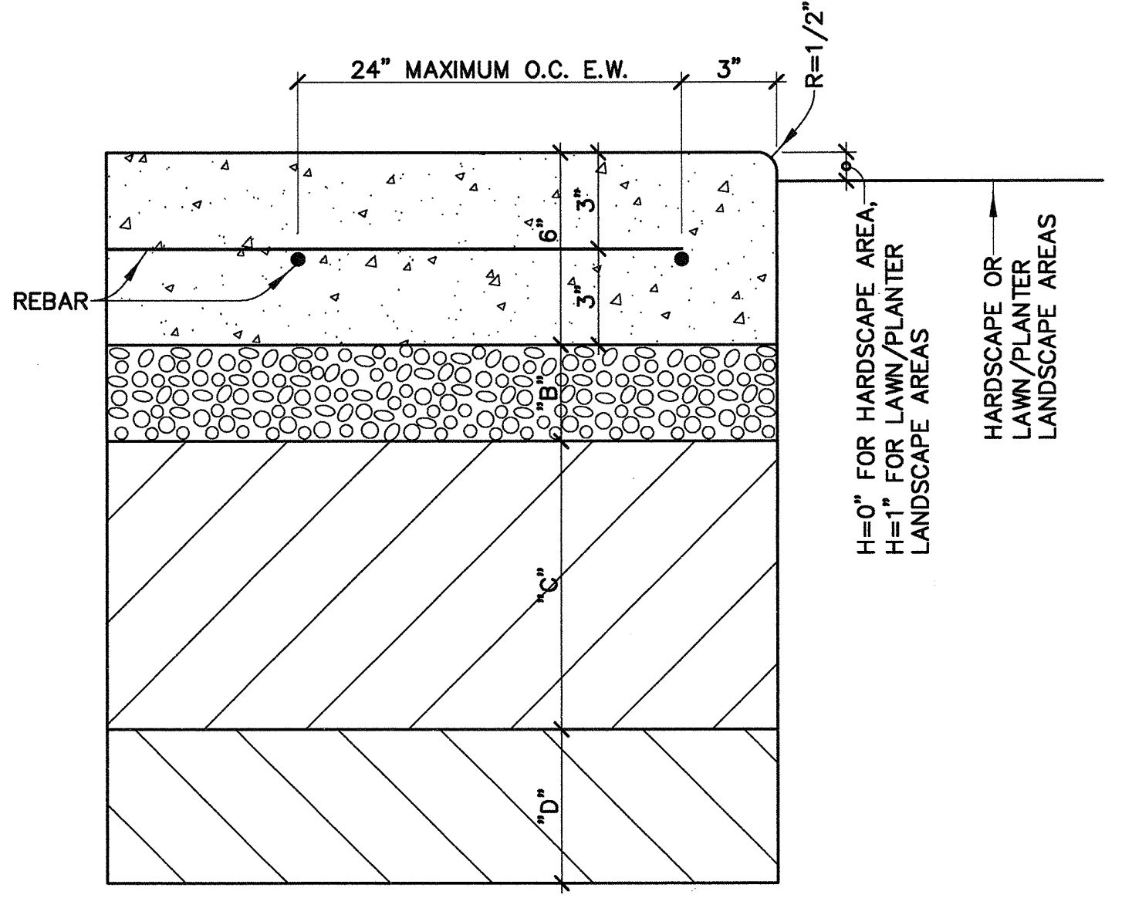
"B" = 4" MINIMUM THICK CRUSHED MISCELLANEOUS BASE (CMB) FOR PLAYGROUND AREAS, AND 10" MINIMUM THICK CRUSHED MISCELLANEOUS BASE (CMB) COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY FOR FIRE LANE AND DRIVING AISLE AREAS. NOTE-BROKEN AND CRUSHED ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE MEETING THE SIZE REQUIREMENTS OF THE CMB MAY BE USED FROM THE ONSITE MATERIAL TO BE REMOVED INSTEAD OF EXPORTING IT OFFSITE AND IMPORTING FULL DEPTH CMB.

"C" = 12" MINIMUM THICK EXISTING SOILS, OR 12" MINIMUM THICK SOILS BELOW THE CMB WHICHEVER IS DEEPER, TO BE REMOVED AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY AT OR NEAR ITS OPTIMUM MOISTURE CONTENT IN APPROXIMATE 6" THICK LIFTS. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING THE OVERLAYING BASE COARSE.

"D" = 8" THICK EXISTING SOILS TO BE SCARIFIED, WATERED OR AERATED AS REQUIRED, THOROUGHLY MIXED TO A UNIFORM CONDITION AT OR NEAR ITS OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER.

DETAIL "A" ⑪⑫

PROPOSED ASPHALT CONCRETE PAVEMENT SECTION
NOT TO SCALE


24" MAXIMUM O.C. E.W.
3"
R=1/2"
#4 REBAR
6"
3"
3"
"B"
"C"
"D"
H=0" FOR HARDSCAPE AREA, H=1" FOR LAWN/PLANTER LANDSCAPE AREAS
HARDSCAPE OR LAWN/PLANTER LANDSCAPE AREAS

NOTES:

1. CONCRETE SHALL BE 3,000 PSI AND SHALL NOT CONTAIN FIBER MESH. INSTALL #4 REBAR AT 24" ON CENTER EACH WAY. COLOR TO MATCH EXISTING ADJACENT CONCRETE.

   THE REBAR SHOWN HEREON CAN BE SUBSTITUTED WITH A 6x6-W2.9W2.9 WELDED WIRE FABRIC PLACED AT THE MID HEIGHT OF THE CONCRETE SLAB.

2. FULL DEPTH CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT INTERVALS NOT EXCEEDING 10' APART.

3. WEAKENED PLANE CONTROL JOINTS SHALL BE 2" DEEP AND MAY BE SAWCUT AT INTERVALS NOT EXCEEDING 10' APART IN AN ALTERNATING PATTERN WITH THE FULL DEPTH JOINTS.

4. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.

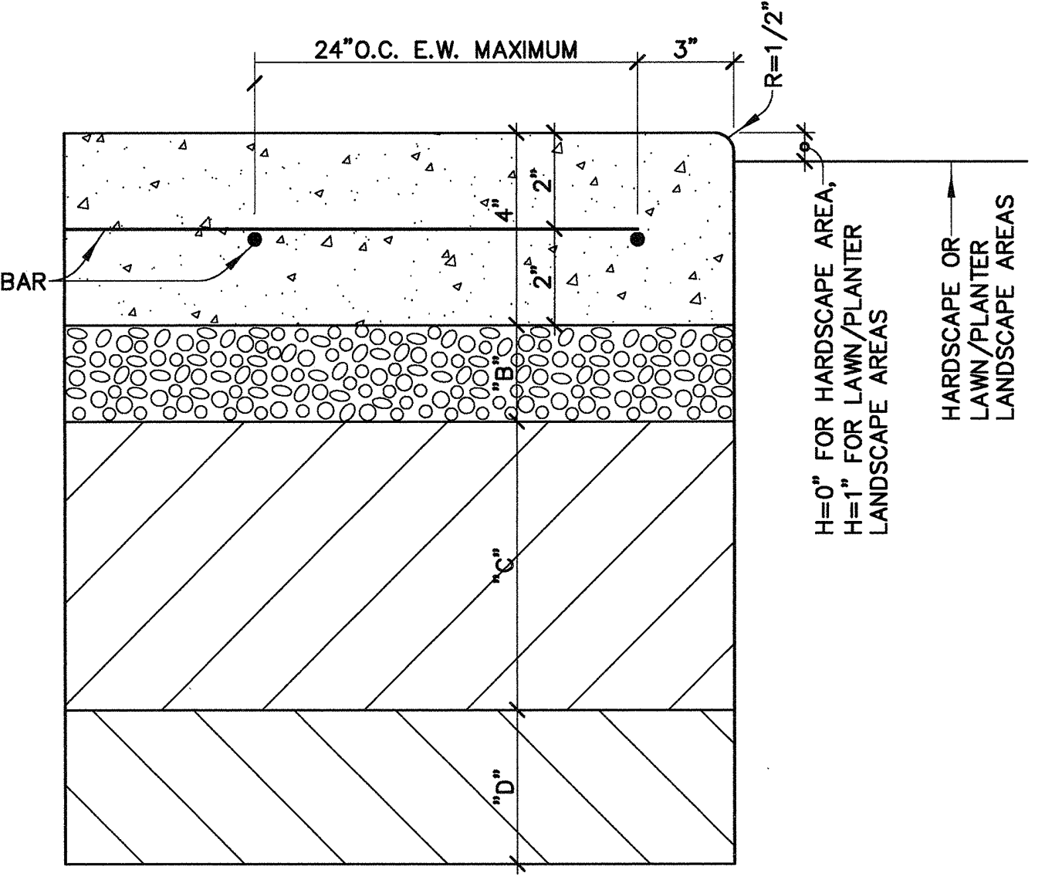
"B" = 4" MINIMUM THICK CRUSHED MISCELLANEOUS BASE (CMB) COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY. BROKEN AND CRUSHED ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE MEETING THE SIZE REQUIREMENTS OF THE CMB MAY BE USED FROM THE ONSITE MATERIAL TO BE REMOVED INSTEAD OF EXPORTING IT OFFSITE AND IMPORTING FULL DEPTH CMB.

"C" = 12" MINIMUM THICK EXISTING SOILS, OR 12" MINIMUM THICK SOILS BELOW THE CMB WHICHEVER IS DEEPER, TO BE REMOVED AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY AT OR NEAR ITS OPTIMUM MOISTURE CONTENT IN APPROXIMATE 6" THICK LIFTS. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING THE OVERLAYING BASE COARSE.

"D" = 8" THICK EXISTING SOILS TO BE SCARIFIED, WATERED OR AERATED AS REQUIRED, THOROUGHLY MIXED TO A UNIFORM CONDITION AT OR NEAR ITS OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER.

DETAIL "C" ①

CONCRETE PAVEMENT
NOT TO SCALE


24"O.C. E.W. MAXIMUM
3"
R=1/2"
#3 REBAR
4"
2"
2"
"B"
"C"
"D"
H=0" FOR HARDSCAPE AREA, H=1" FOR LAWN/PLANTER LANDSCAPE AREAS
HARDSCAPE OR LAWN/PLANTER LANDSCAPE AREAS

NOTES:

1. CONCRETE SHALL BE 3,000 PSI AND SHALL NOT CONTAIN FIBER MESH. INSTALL #3 REBAR AT 24" ON CENTER EACH WAY. COLOR TO MATCH EXISTING ADJACENT CONCRETE.

   THE REBAR SHOWN HEREON CAN BE SUBSTITUTED WITH A 6x6-W2.9W2.9 WELDED WIRE FABRIC PLACED AT THE MID HEIGHT OF THE CONCRETE SLAB.

2. FULL DEPTH CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT INTERVALS NOT EXCEEDING 10' APART.

3. WEAKENED PLANE CONTROL JOINTS SHALL BE 1.5" DEEP AND MAY BE SAWCUT AT INTERVALS NOT EXCEEDING 10' APART IN AN ALTERNATING PATTERN WITH THE FULL DEPTH JOINTS.

4. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.

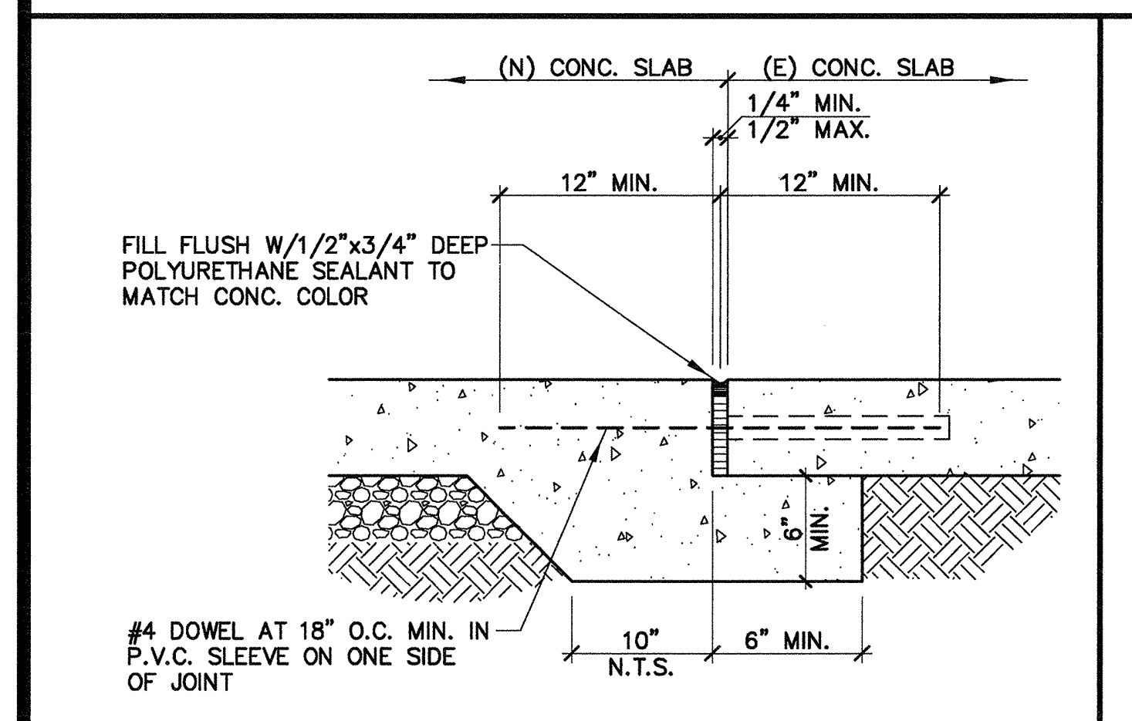
"B" = 0" MINIMUM THICK CRUSHED MISCELLANEOUS BASE (CMB) COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY. BROKEN AND CRUSHED ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE MEETING THE SIZE REQUIREMENTS OF THE CMB MAY BE USED FROM THE ONSITE MATERIAL TO BE REMOVED INSTEAD OF EXPORTING IT OFFSITE AND IMPORTING FULL DEPTH CMB.

"C" = 12" MINIMUM THICK EXISTING SOILS, OR 12" MINIMUM THICK SOILS BELOW THE CMB WHICHEVER IS DEEPER, TO BE REMOVED AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY AT OR NEAR ITS OPTIMUM MOISTURE CONTENT IN APPROXIMATE 6" THICK LIFTS. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACING THE OVERLAYING BASE COARSE.

"D" = 8" THICK EXISTING SOILS TO BE SCARIFIED, WATERED OR AERATED AS REQUIRED, THOROUGHLY MIXED TO A UNIFORM CONDITION AT OR NEAR ITS OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY. COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER.

DETAIL "G" ②

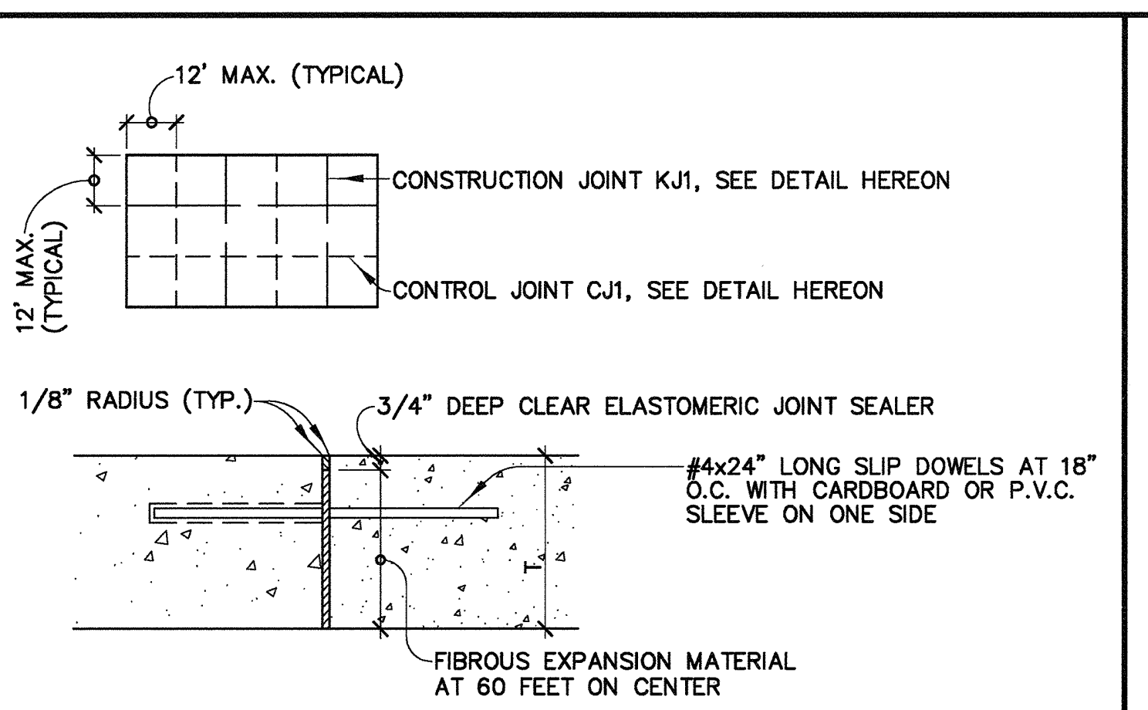
CONCRETE WALK
NOT TO SCALE


(N) CONC. SLAB
(E) CONC. SLAB
1/4" MIN.
1/2" MAX.
12" MIN.
12" MIN.
FILL FLUSH W/1/2"x3/4" DEEP POLYURETHANE SEALANT TO MATCH CONC. COLOR
6" MIN.
#4 DOWEL AT 18" O.C. MIN. IN P.V.C. SLEEVE ON ONE SIDE OF JOINT
10"
N.T.S.
6" MIN.

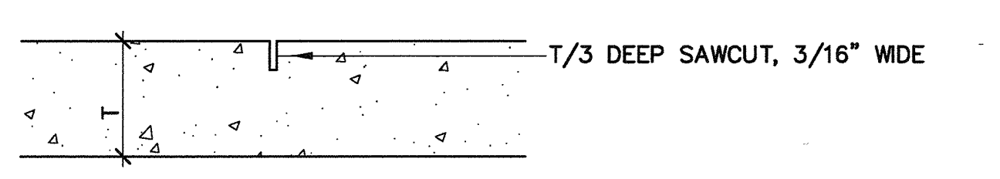
REFERENCE DETAILS "C", "E" AND "G" SHOWN ON SHEET C1.01.

DETAIL "D"

NEW CONCRETE TO EXISTING CONCRETE JOINT
NOT TO SCALE


12' MAX. (TYPICAL)
12' MAX. (TYPICAL)
CONSTRUCTION JOINT KJ1, SEE DETAIL HEREON
CONTROL JOINT CJ1, SEE DETAIL HEREON
1/8" RADIUS (TYP.)
3/4" DEEP CLEAR ELASTOMERIC JOINT SEALER
#4x24" LONG SLIP DOWELS AT 18" O.C. WITH CARDBOARD OR P.V.C. SLEEVE ON ONE SIDE
T
FIBROUS EXPANSION MATERIAL AT 60 FEET ON CENTER

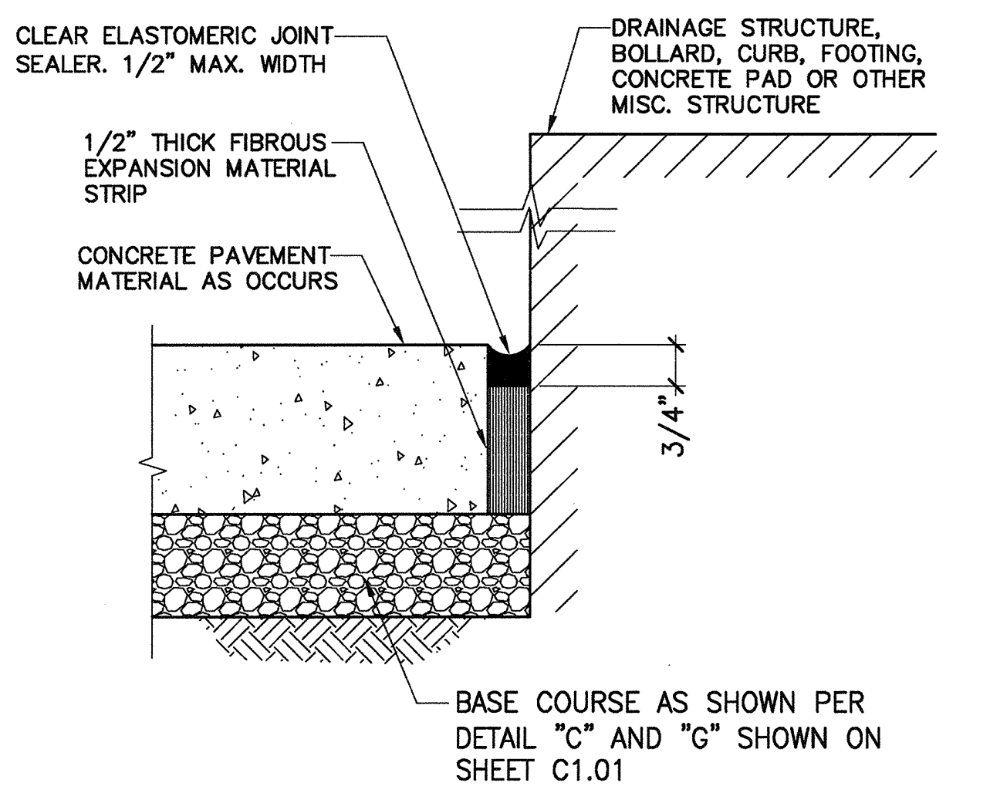
CONSTRUCTION JOINT KJ1



CONTROL JOINT CJ1

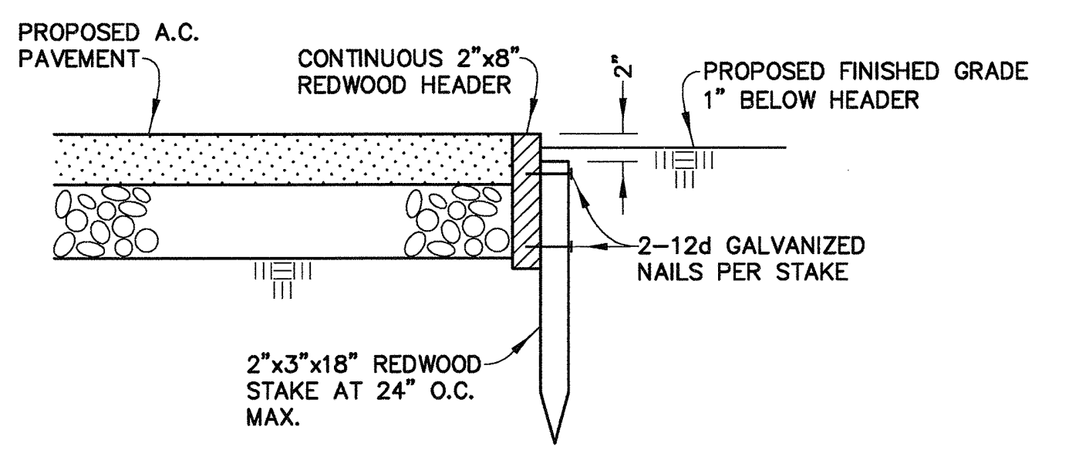
DETAIL "E"

CONCRETE JOINTS
NOT TO SCALE


CLEAR ELASTOMERIC JOINT SEALER. 1/2" MAX. WIDTH
1/2" THICK FIBROUS EXPANSION MATERIAL STRIP
CONCRETE PAVEMENT MATERIAL AS OCCURS
DRAINAGE STRUCTURE, BOLLARD, CURB, FOOTING, CONCRETE PAD OR OTHER MISC. STRUCTURE
3/4"
BASE COURSE AS SHOWN PER DETAIL "C" AND "G" SHOWN ON SHEET C1.01

DETAIL "F"

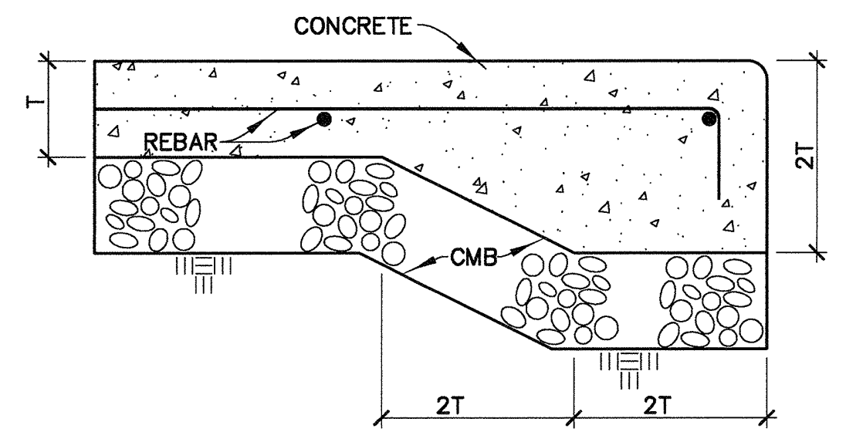
CONCRETE ISOLATION FULL DEPTH CONSTRUCTION JOINT AT STRUCTURE
NOT TO SCALE


PROPOSED A.C. PAVEMENT
CONTINUOUS 2"x8" REDWOOD HEADER
2"
PROPOSED FINISHED GRADE 1" BELOW HEADER
2-12d GALVANIZED NAILS PER STAKE
2"x3"x18" REDWOOD STAKE AT 24" O.C. MAX.

DETAIL "B" ⑬

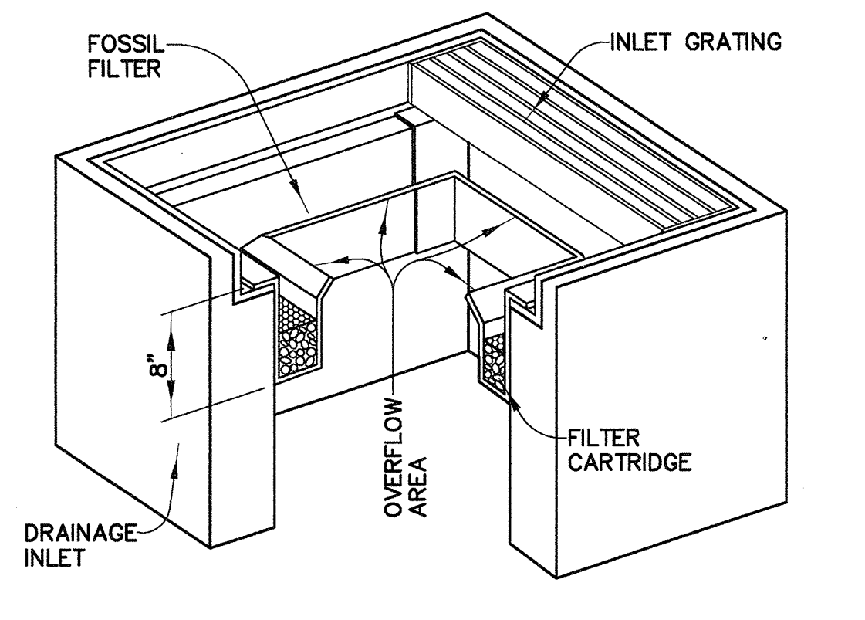
REDWOOD HEADER
NOT TO SCALE

NOTE:
COMPACT CMB AND SOIL UNDER CMB PER C/1.01 AND G/1.01



DETAIL "H"

CONCRETE EDGE CONDITION
NOT TO SCALE



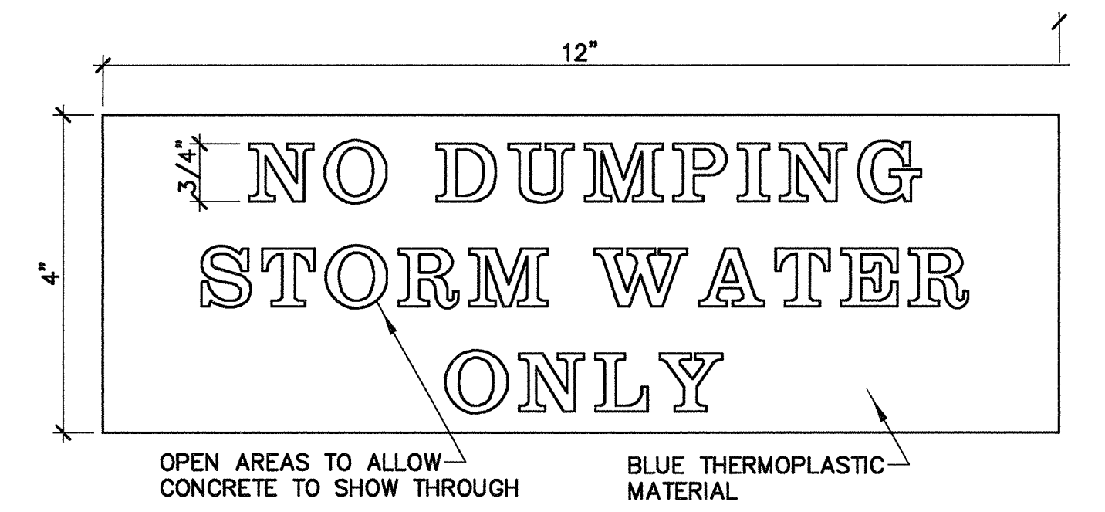
NOTE: CONTACT LOCAL DISTRIBUTOR FOR INSTALLATION OF SYSTEM AND LONG TERM MAINTENANCE CONTRACT 1-800-950-3002

INSTALLATION NOTES

1. REMOVE INLET GRATING AND MEASURE INLET DIMENSION OF INLET.
2. CUT FOSSIL FILTER CORNER SECTIONS TO APPROPRIATE LENGTH.
3. CONNECT CORNER SECTIONS TOGETHER AND SET FOSSIL FILTER INTO INLET. (RESTING ON GRATE BEARING SURFACE)
4. CUT THE FILTER CARTRIDGE TO FIT FOSSIL FILTER.
5. PLACE END CAP ON ONE END OF FILTER CARTRIDGE AND FILL UNIT FROM OPEN END WITH ABSORBENT.
6. PLACE OTHER END CAP ON FILTER CARTRIDGE AND PLACE FILLED UNIT INTO THE INSTALLED FOSSIL FILTER. INSTALLATION IS COMPLETE.

DETAIL "J" ③④

FOSSIL FILTER
(MANUFACTURED BY KRISTAR ENTERPRISES, INC.)
NOT TO SCALE


12"
3/4"
4"
NO DUMPING
STORM WATER
ONLY
OPEN AREAS TO ALLOW CONCRETE TO SHOW THROUGH
BLUE THERMOPLASTIC MATERIAL

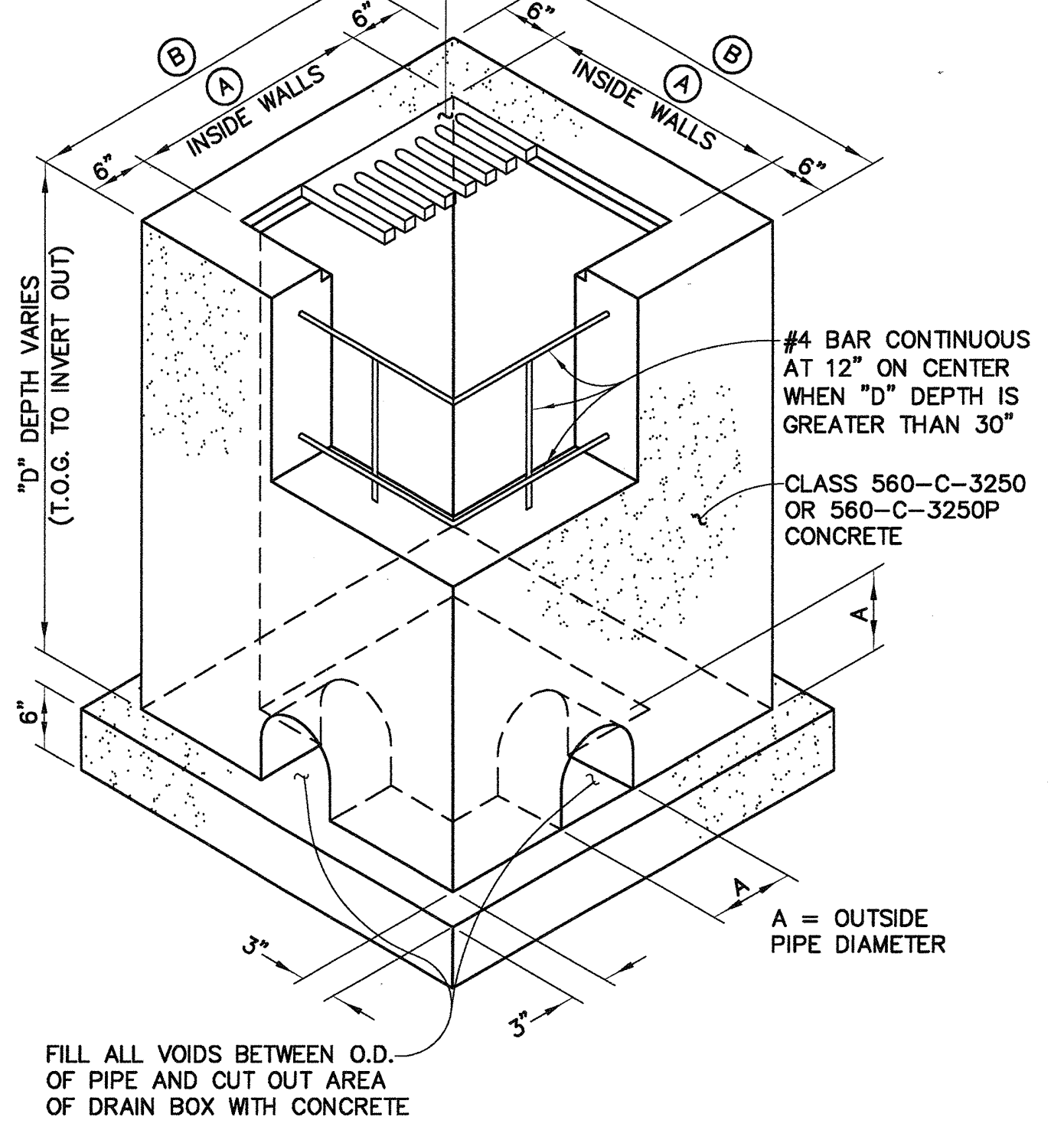
PLACEMENT: THERMOPLASTIC SIGNAGE IS TO BE INSTALLED ON THE TOP OF CURB APPROXIMATELY 1/2 INCH BEHIND THE CURB FACE CENTERED OVER THE INLET STRUCTURE. WHERE THERE IS NO ADJACENT CURB, INSTALL SIGNAGE ON TOP OF THE CONCRETE DRAIN BOX WALL OR CONCRETE SURFACE NEXT TO THE GRATE AND FRAME.

APPLICATION: MATERIAL SHALL BE APPLIED USING THE PROPANE TORCH METHOD RECOMMENDED BY THE MANUFACTURER.

DETAIL "K" ⑤

STORM DRAIN SIGNAGE
NOT TO SCALE

VANDAL PROOF GRATE AND FRAME IN COMPLIANCE WITH ADA REQUIREMENTS. FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS OF TRAVEL, GRID/OPENINGS IN GRATINGS SHOULD BE LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURER CUT SHEETS OF GRATE PROVIDED.

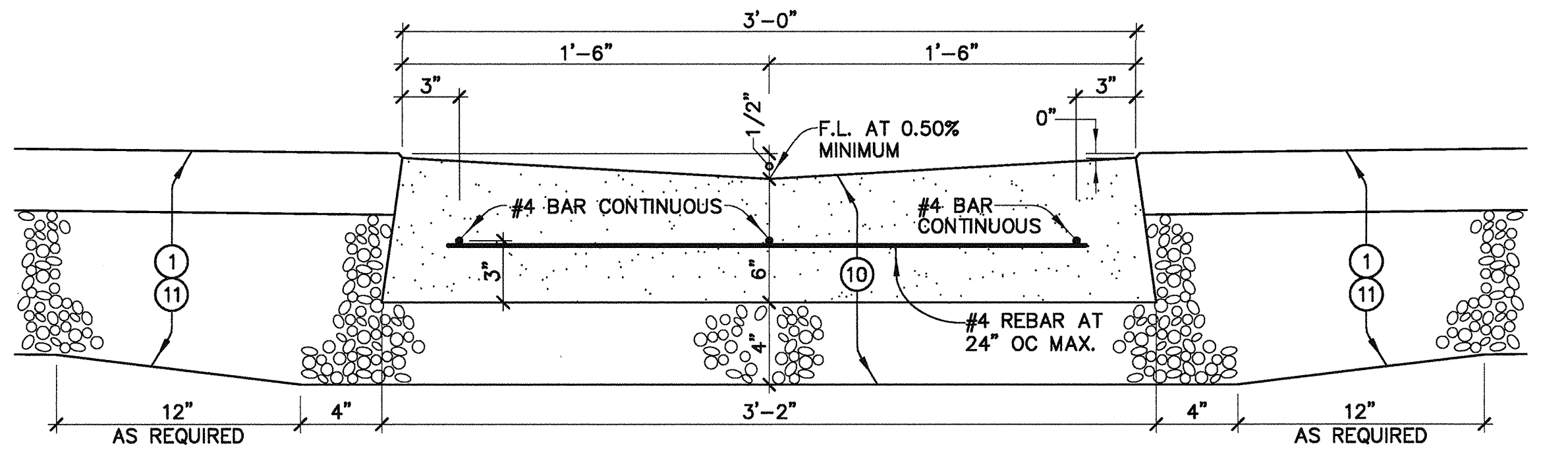

Ⓒ
Ⓑ
Ⓐ
INSIDE WALLS
6"
6"
Ⓐ
INSIDE WALLS
Ⓑ
6"
6"
"D" DEPTH VARIES (T.O.G. TO INVERT OUT)
#4 BAR CONTINUOUS AT 12" ON CENTER WHEN "D" DEPTH IS GREATER THAN 30"
CLASS 560-C-3250 OR 560-C-3250P CONCRETE
A
6"
A = OUTSIDE PIPE DIAMETER
3"
3"
FILL ALL VOIDS BETWEEN O.D. OF PIPE AND CUT OUT AREA OF DRAIN BOX WITH CONCRETE

DRAIN BOX NOTES

GRATE SIZE	Ⓐ	Ⓑ	Ⓒ
12-INCH x 12-INCH ③	10"	22"	ALHAMBRA FOUNDRY CO., LTD. OR EQUAL [NARROW SLOT, 0.5" WIDE (MAX.) OPENINGS] 12"x12" GALVANIZED CAST IRON GRATE AND FRAME. USE MODEL NO. A-2012 FOR TRAFFIC CONDITIONS AND MODEL NO. A-2010 FOR NON-TRAFFIC CONDITIONS. SECURE GRATE AGAINST THEFT WITH LOCKING SCREWS.
24-INCH x 24-INCH ④	22"	34"	ALHAMBRA FOUNDRY CO., LTD. OR EQUAL [NARROW SLOT, 0.5" WIDE (MAX.) OPENINGS] 24"x24" GALVANIZED CAST IRON GRATE AND FRAME. USE MODEL NO. A-2012 FOR TRAFFIC CONDITIONS AND MODEL NO. A-2010 FOR NON-TRAFFIC CONDITIONS. SECURE GRATE AGAINST THEFT WITH LOCKING SCREWS.

DETAIL "I" ③④

CONCRETE DRAIN BOX
NOT TO SCALE



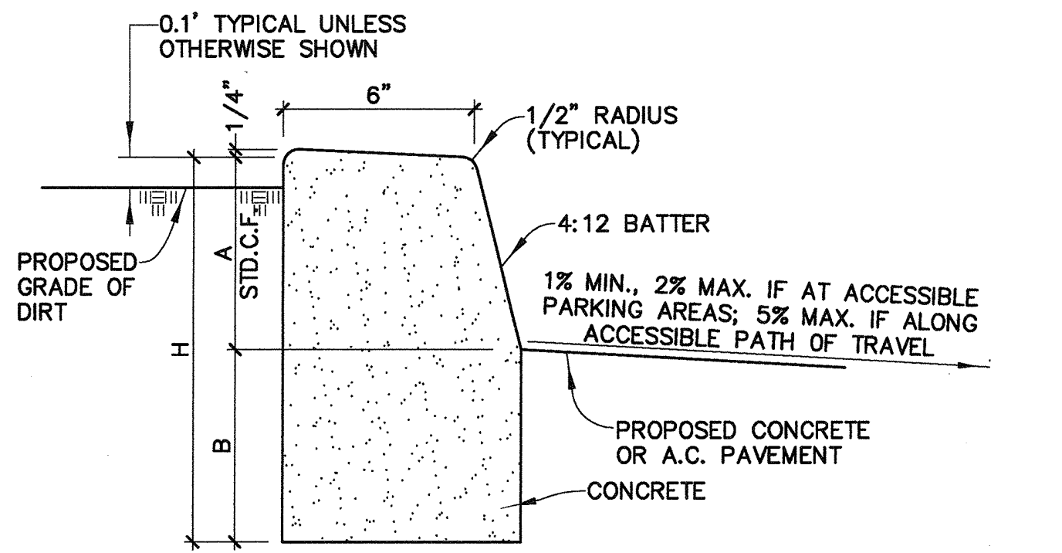
NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES

NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

IN LIEU OF THE REBAR SHOWN HEREON, A 6X6-W2.9 WELDED WIRE FABRIC MAY BE INSTALLED.

DETAIL "L" ⑩

ADA ACCESSIBLE 3FT. WIDE DRAINAGE SWALE
NOT TO SCALE


0.1' TYPICAL UNLESS OTHERWISE SHOWN
1/4"
6"
1/2" RADIUS (TYPICAL)
4:12 BATTER
PROPOSED GRADE OF DIRT
A
STD.C.F.
H
B
1% MIN., 2% MAX. IF AT ACCESSIBLE PARKING AREAS; 5% MAX. IF ALONG ACCESSIBLE PATH OF TRAVEL
PROPOSED CONCRETE OR A.C. PAVEMENT
CONCRETE
C

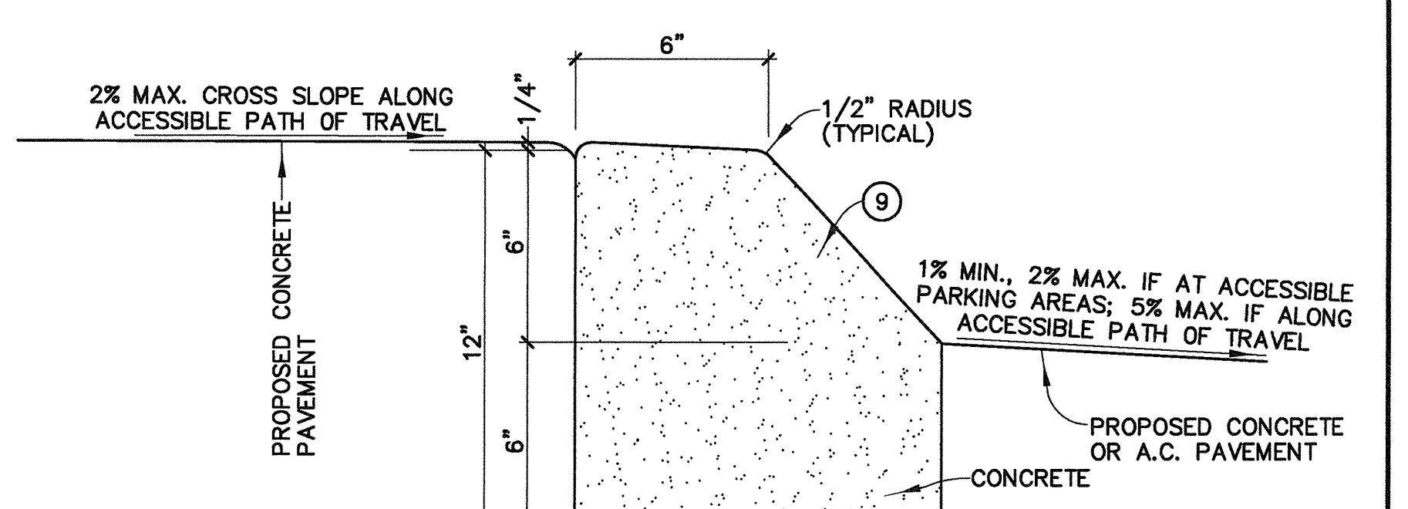
NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES

NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

H	A	B	C
6"	0"	6"	6"
9"	3"	6"	7"
12"	6"	6"	8"
16"	8"	8"	8"
24"	12"	12"	8"

DETAIL "M" ⑥⑦⑧

6" PLANTER CURB
NOT TO SCALE

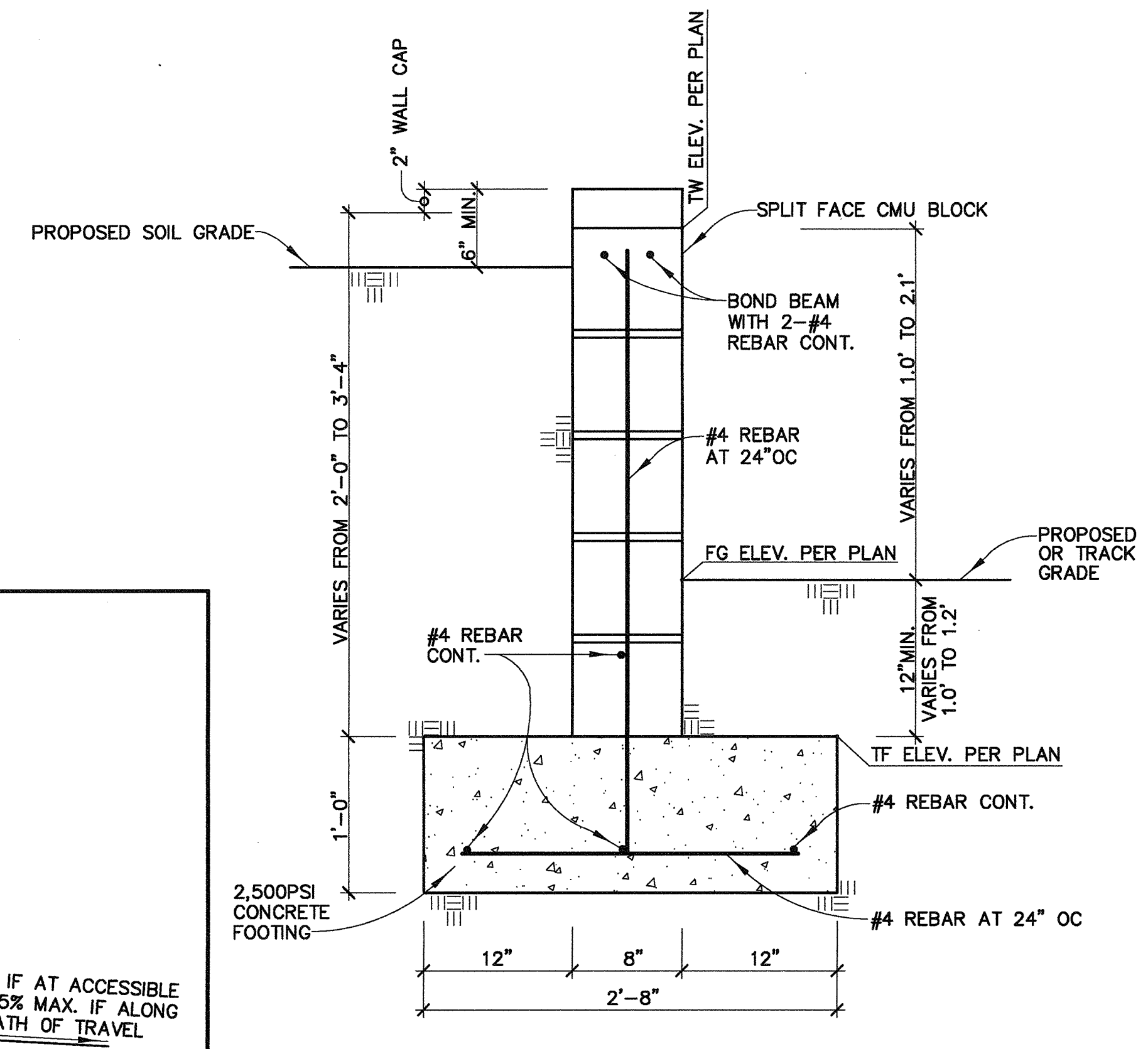

2% MAX. CROSS SLOPE ALONG ACCESSIBLE PATH OF TRAVEL
1/4"
6"
1/2" RADIUS (TYPICAL)
⑨
PROPOSED CONCRETE PAVEMENT
6"
12"
6"
1% MIN., 2% MAX. IF AT ACCESSIBLE PARKING AREAS; 5% MAX. IF ALONG ACCESSIBLE PATH OF TRAVEL
PROPOSED CONCRETE OR A.C. PAVEMENT
CONCRETE
12"

NOTE: CONTROL JOINTS TO BE A MINIMUM 1/4" BITUMINOUS FELT AT 24' O.C. MAXIMUM AND AT BEGINNING AND END OF CURVES

NOTE: WEAKENED PLANE JOINTS AT 10 FOOT INTERVALS AND MAY BE SAWCUT

DETAIL "N" ⑨

6" CONCRETE MOUNTABLE CURB
NOT TO SCALE



DETAIL "O" ⑮

SHORT RETAINING WALL
SCALE: 1"=1'

REFER TO SHEET C4 AND C5 FOR THE CONSTRUCTION NOTES SHOWN HEREON IN CIRCLES.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS ____ SS ____
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

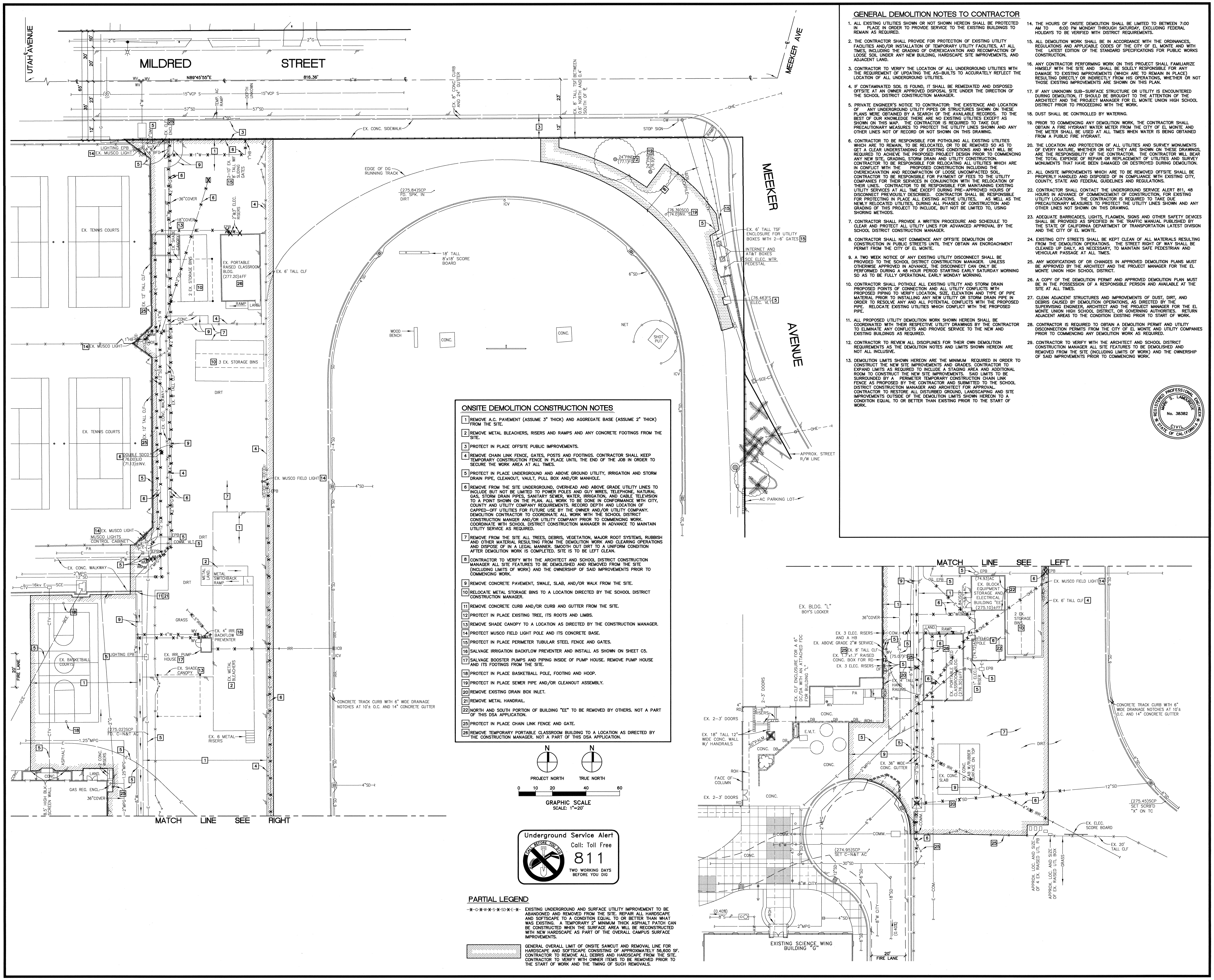
SHEET NUMBER: C2
SHEET TITLE:

DETAIL SHEET

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C2ds

5/6/2016 5:18:08 PM, MSL ENGINEERING, INC. PRINT/PLOT DATE (gb)



PROJECT NORTH

TRUE NORTH

0 10 20 40 60

GRAPHIC SCALE
SCALE: 1"=20'

GENERAL DEMOLITION NOTES TO CONTRACTOR

1. ALL EXISTING UTILITIES SHOWN OR NOT SHOWN HEREON SHALL BE PROTECTED IN PLACE IN ORDER TO PROVIDE SERVICE TO THE EXISTING BUILDINGS TO REMAIN AS REQUIRED.
2. THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF EXISTING UTILITY FACILITIES AND/OR INSTALLATION OF TEMPORARY UTILITY FACILITIES, AT ALL TIMES, INCLUDING THE GRADING OF OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL UNDER ANY NEW BUILDING, HARDSCAPE SITE IMPROVEMENTS, AND ADJACENT LAND.
3. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITH THE REQUIREMENT OF UPDATING THE AS-BUILTS TO ACCURATELY REFLECT THE LOCATION OF ALL UNDERGROUND UTILITIES.
4. IF CONTAMINATED SOIL IS FOUND, IT SHALL BE REMEDIATED AND DISPOSED OFFSITE AT AN OWNER APPROVED DISPOSAL SITE UNDER THE DIRECTION OF THE SCHOOL DISTRICT CONSTRUCTION MANAGER.
5. PRIVATE ENGINEER'S NOTICE TO CONTRACTOR: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.
6. CONTRACTOR TO BE RESPONSIBLE FOR POTHOLING ALL EXISTING UTILITIES WHICH ARE TO REMAIN, TO BE RELOCATED, OR TO BE REMOVED SO AS TO GET A CLEAR UNDERSTANDING OF EXISTING CONDITIONS AND WHAT WILL BE REQUIRED TO ACHIEVE THE PROPOSED PROJECT DESIGN PRIOR TO COMMENCING ANY NEW SITE, GRADING, STORM DRAIN AND UTILITY CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR RELOCATING ALL UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION INCLUDING THE OVEREXCAVATION AND RECOMPACTION OF LOOSE UNCOMPACTED SOIL. CONTRACTOR TO BE RESPONSIBLE FOR PAYMENT OF FEES TO THE UTILITY COMPANIES FOR THEIR SERVICES IN CONJUNCTION WITH THE RELOCATION OF THEIR LINES. CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITY SERVICES AT ALL TIME EXCEPT DURING PRE-APPROVED HOURS OF DISCONNECT PREVIOUSLY DESCRIBED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING IN PLACE ALL EXISTING ACTIVE UTILITIES, AS WELL AS THE NEWLY RELOCATED UTILITIES, DURING ALL PHASES OF CONSTRUCTION AND GRADING OF THIS PROJECT TO INCLUDE, BUT NOT BE LIMITED TO, USING SHORING METHODS.
7. CONTRACTOR SHALL PROVIDE A WRITTEN PROCEDURE AND SCHEDULE TO CLEAR AND PROTECT ALL UTILITY LINES FOR ADVANCED APPROVAL BY THE SCHOOL DISTRICT CONSTRUCTION MANAGER.
8. CONTRACTOR SHALL NOT COMMENCE ANY OFFSITE DEMOLITION OR CONSTRUCTION IN PUBLIC STREETS UNTIL THEY OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF EL MONTE.
9. A TWO WEEK NOTICE OF ANY EXISTING UTILITY DISCONNECT SHALL BE PROVIDED TO THE SCHOOL DISTRICT CONSTRUCTION MANAGER. UNLESS OTHERWISE APPROVED IN ADVANCE, THE DISCONNECT CAN ONLY BE PERFORMED DURING A 48 HOUR PERIOD STARTING EARLY SATURDAY MORNING SO AS TO BE FULLY OPERATIONAL EARLY MONDAY MORNING.
10. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY AND STORM DRAIN PROPOSED POINTS OF CONNECTION AND ALL UTILITY CONFLICTS WITH PROPOSED PIPING TO VERIFY LOCATION, SIZE, ELEVATION AND TYPE OF PIPE MATERIAL PRIOR TO INSTALLING ANY NEW UTILITY OR STORM DRAIN PIPE IN ORDER TO RESOLVE ANY AND ALL POTENTIAL CONFLICTS WITH THE PROPOSED PIPE. RELOCATE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED PIPE.
11. ALL PROPOSED UTILITY DEMOLITION WORK SHOWN HEREON SHALL BE COORDINATED WITH THEIR RESPECTIVE UTILITY DRAWINGS BY THE CONTRACTOR TO ELIMINATE ANY CONFLICTS AND PROVIDE SERVICE TO THE NEW AND EXISTING BUILDINGS AS REQUIRED.
12. CONTRACTOR TO REVIEW ALL DISCIPLINES FOR THEIR OWN DEMOLITION REQUIREMENTS AS THE DEMOLITION NOTES AND LIMITS SHOWN HEREON ARE NOT ALL INCLUSIVE.
13. DEMOLITION LIMITS SHOWN HEREON ARE THE MINIMUM REQUIRED IN ORDER TO CONSTRUCT THE NEW SITE IMPROVEMENTS AND GRADES. CONTRACTOR TO EXPAND LIMITS AS REQUIRED TO INCLUDE A STAGING AREA AND ADDITIONAL ROOM TO CONSTRUCT THE NEW SITE IMPROVEMENTS. SAID LIMITS TO BE SURROUNDED BY A PERIMETER TEMPORARY CONSTRUCTION CHAIN LINK FENCE AS PROPOSED BY THE CONTRACTOR AND SUBMITTED TO THE SCHOOL DISTRICT CONSTRUCTION MANAGER AND ARCHITECT FOR APPROVAL. CONTRACTOR TO RESTORE ALL DISTURBED GROUND, LANDSCAPING AND SITE IMPROVEMENTS OUTSIDE OF THE DEMOLITION LIMITS SHOWN HEREON TO A CONDITION EQUAL TO OR BETTER THAN EXISTING PRIOR TO THE START OF WORK.
14. THE HOURS OF ONSITE DEMOLITION SHALL BE LIMITED TO BETWEEN 7:00 AM TO 6:00 PM MONDAY THROUGH SATURDAY, EXCLUDING FEDERAL HOLIDAYS TO BE VERIFIED WITH DISTRICT REQUIREMENTS.
15. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH THE ORDINANCES, REGULATIONS AND APPLICABLE CODES OF THE CITY OF EL MONTE AND WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
16. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS (WHICH ARE TO REMAIN IN PLACE) RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT THOSE EXISTING IMPROVEMENTS ARE SHOWN ON THIS PLAN.
17. IF ANY UNKNOWN SUB-SURFACE STRUCTURE OR UTILITY IS ENCOUNTERED DURING DEMOLITION, IT SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE PROJECT MANAGER FOR EL MONTE UNION HIGH SCHOOL DISTRICT PRIOR TO PROCEEDING WITH THE WORK.
18. DUST SHALL BE CONTROLLED BY WATERING.
19. PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT WATER METER FROM THE CITY OF EL MONTE AND THE METER SHALL BE USED AT ALL TIMES WHEN WATER IS BEING OBTAINED FROM A PUBLIC FIRE HYDRANT.
20. THE LOCATION AND PROTECTION OF ALL UTILITIES AND SURVEY MONUMENTS OF EVERY NATURE, WHETHER OR NOT THEY ARE SHOWN ON THESE DRAWINGS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND SURVEY MONUMENTS THAT HAVE BEEN DAMAGED OR DESTROYED DURING DEMOLITION.
21. ALL ONSITE IMPROVEMENTS WHICH ARE TO BE REMOVED OFFSITE SHALL BE PROPERLY HANDLED AND DISPOSED OF IN COMPLIANCE WITH EXISTING CITY, COUNTY, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
22. CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT 811, 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION, FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THIS DRAWING.
23. ADEQUATE BARRICADES, LIGHTS, FLAGMEN, SIGNS AND OTHER SAFETY DEVICES SHALL BE PROVIDED AS SPECIFIED IN THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION LATEST DIVISION AND THE CITY OF EL MONTE.
24. EXISTING CITY STREETS SHALL BE KEPT CLEAN OF ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS. THE STREET RIGHT OF WAY SHALL BE CLEANED UP DAILY, AS NECESSARY, TO MAINTAIN SAFE PEDESTRIAN AND VEHICULAR PASSAGE AT ALL TIMES.
25. ANY MODIFICATIONS OF OR CHANGES IN APPROVED DEMOLITION PLANS MUST BE APPROVED BY THE ARCHITECT AND THE PROJECT MANAGER FOR THE EL MONTE UNION HIGH SCHOOL DISTRICT.
26. A COPY OF THE DEMOLITION PERMIT AND APPROVED DEMOLITION PLAN MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
27. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY THE SUPERVISING ENGINEER, ARCHITECT AND THE PROJECT MANAGER FOR THE EL MONTE UNION HIGH SCHOOL DISTRICT, OR GOVERNING AUTHORITIES. RETURN ADJACENT AREAS TO THE CONDITION EXISTING PRIOR TO START OF WORK.
28. CONTRACTOR IS REQUIRED TO OBTAIN A DEMOLITION PERMIT AND UTILITY DISCONNECTION PERMITS FROM THE CITY OF EL MONTE AND UTILITY COMPANIES PRIOR TO COMMENCING ANY DEMOLITION WORK AS REQUIRED.
29. CONTRACTOR TO VERIFY WITH THE ARCHITECT AND SCHOOL DISTRICT CONSTRUCTION MANAGER ALL SITE FEATURES TO BE DEMOLISHED AND REMOVED FROM THE SITE (INCLUDING LIMITS OF WORK) AND THE OWNERSHIP OF SAID IMPROVEMENTS PRIOR TO COMMENCING WORK.

ONSITE DEMOLITION CONSTRUCTION NOTES

1	REMOVE A.C. PAVEMENT (ASSUME 3" THICK) AND AGGREGATE BASE (ASSUME 2" THICK) FROM THE SITE.
2	REMOVE METAL BLEACHERS, RISERS AND RAMPS AND ANY CONCRETE FOOTINGS FROM THE SITE.
3	PROTECT IN PLACE OFFSITE PUBLIC IMPROVEMENTS.
4	REMOVE CHAIN LINK FENCE, GATES, POSTS AND FOOTINGS. CONTRACTOR SHALL KEEP TEMPORARY CONSTRUCTION FENCE IN PLACE UNTIL THE END OF THE JOB IN ORDER TO SECURE THE WORK AREA AT ALL TIMES.
5	PROTECT IN PLACE UNDERGROUND AND ABOVE GROUND UTILITY, IRRIGATION AND STORM DRAIN PIPE, CLEANOUT, VAULT, PULL BOX AND/OR MANHOLE.
6	REMOVE FROM THE SITE UNDERGROUND, OVERHEAD AND ABOVE GRADE UTILITY LINES TO INCLUDE BUT NOT BE LIMITED TO POWER POLES AND GUY WIRES, TELEPHONE, NATURAL GAS, STORM DRAIN PIPES, SANITARY SEWER, WATER, IRRIGATION, AND CABLE TELEVISION TO A POINT SHOWN ON THE PLAN. ALL WORK TO BE DONE IN CONFORMANCE WITH CITY, COUNTY AND UTILITY COMPANY REQUIREMENTS. RECORD DEPTH AND LOCATION OF CAPPED-OFF UTILITIES FOR FUTURE USE BY THE OWNER AND/OR UTILITY COMPANY. DEMOLITION CONTRACTOR TO COORDINATE ALL WORK WITH THE SCHOOL DISTRICT CONSTRUCTION MANGER AND/OR UTILITY COMPANY PRIOR TO COMMENCING WORK. COORDINATE WITH SCHOOL DISTRICT CONSTRUCTION MANAGER IN ADVANCE TO MAINTAIN UTILITY SERVICE AS REQUIRED.
7	REMOVE FROM THE SITE ALL TREES, DEBRIS, VEGETATION, MAJOR ROOT SYSTEMS, RUBBISH AND OTHER MATERIAL RESULTING FROM THE DEMOLITION WORK AND CLEARING OPERATIONS AND DISPOSE OF IN A LEGAL MANNER. SMOOTH OUT DIRT TO A UNIFORM CONDITION AFTER DEMOLITION WORK IS COMPLETED. SITE IS TO BE LEFT CLEAN.
8	CONTRACTOR TO VERIFY WITH THE ARCHITECT AND SCHOOL DISTRICT CONSTRUCTION MANAGER ALL SITE FEATURES TO BE DEMOLISHED AND REMOVED FROM THE SITE (INCLUDING LIMITS OF WORK) AND THE OWNERSHIP OF SAID IMPROVEMENTS PRIOR TO COMMENCING WORK.
9	REMOVE CONCRETE PAVEMENT, SWALE, SLAB, AND/OR WALK FROM THE SITE.
10	RELOCATE METAL STORAGE BINS TO A LOCATION DIRECTED BY THE SCHOOL DISTRICT CONSTRUCTION MANAGER.
11	REMOVE CONCRETE CURB AND/OR CURB AND GUTTER FROM THE SITE.
12	PROTECT IN PLACE EXISTING TREE, ITS ROOTS AND LIMBS.
13	REMOVE SHADE CANOPY TO A LOCATION AS DIRECTED BY THE CONSTRUCTION MANAGER.
14	PROTECT MUSCO FIELD LIGHT POLE AND ITS CONCRETE BASE.
15	PROTECT IN PLACE PERIMETER TUBULAR STEEL FENCE AND GATES.
16	SALVAGE IRRIGATION BACKFLOW PREVENTER AND INSTALL AS SHOWN ON SHEET C5.
17	SALVAGE BOOSTER PUMPS AND PIPING INSIDE OF PUMP HOUSE. REMOVE PUMP HOUSE AND ITS FOOTINGS FROM THE SITE.
18	PROTECT IN PLACE BASKETBALL POLE, FOOTING AND HOOP.
19	PROTECT IN PLACE SEWER PIPE AND/OR CLEANOUT ASSEMBLY.
20	REMOVE EXISTING DRAIN BOX INLET.
21	REMOVE METAL HANDRAIL.
22	NORTH AND SOUTH PORTION OF BUILDING "EE" TO BE REMOVED BY OTHERS. NOT A PART OF THIS DSA APPLICATION.
25	PROTECT IN PLACE CHAIN LINK FENCE AND GATE.
26	REMOVE TEMPORARY PORTABLE CLASSROOM BUILDING TO A LOCATION AS DIRECTED BY THE CONSTRUCTION MANAGER. NOT A PART OF THIS DSA APPLICATION.

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PARTIAL LEGEND

—X—G—X—W—X—S—X—SD—X—E—X—	EXISTING UNDERGROUND AND SURFACE UTILITY IMPROVEMENT TO BE ABANDONED AND REMOVED FROM THE SITE. REPAIR ALL HARDSCAPE AND SOFTSCAPE TO A CONDITION EQUAL TO OR BETTER THAN WHAT WAS EXISTING. A TEMPORARY 2" MINIMUM THICK ASPHALT PATCH CAN BE CONSTRUCTED WHEN THE SURFACE AREA WILL BE RECONSTRUCTED WITH NEW HARDSCAPE AS PART OF THE OVERALL CAMPUS SURFACE IMPROVEMENTS.
▨	GENERAL OVERALL LIMIT OF ONSITE SAWCUT AND REMOVAL LINE FOR HARDSCAPE AND SOFTSCAPE CONSISTING OF APPROXIMATELY 56,600 SF. CONTRACTOR TO REMOVE ALL DEBRIS AND HARDSCAPE FROM THE SITE. CONTRACTOR TO VERIFY WITH OWNER ITEMS TO BE REMOVED PRIOR TO THE START OF WORK AND THE TIMING OF SUCH REMOVALS.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

No. 38382

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
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DATE 2/3/2017
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SCALE: As indicated

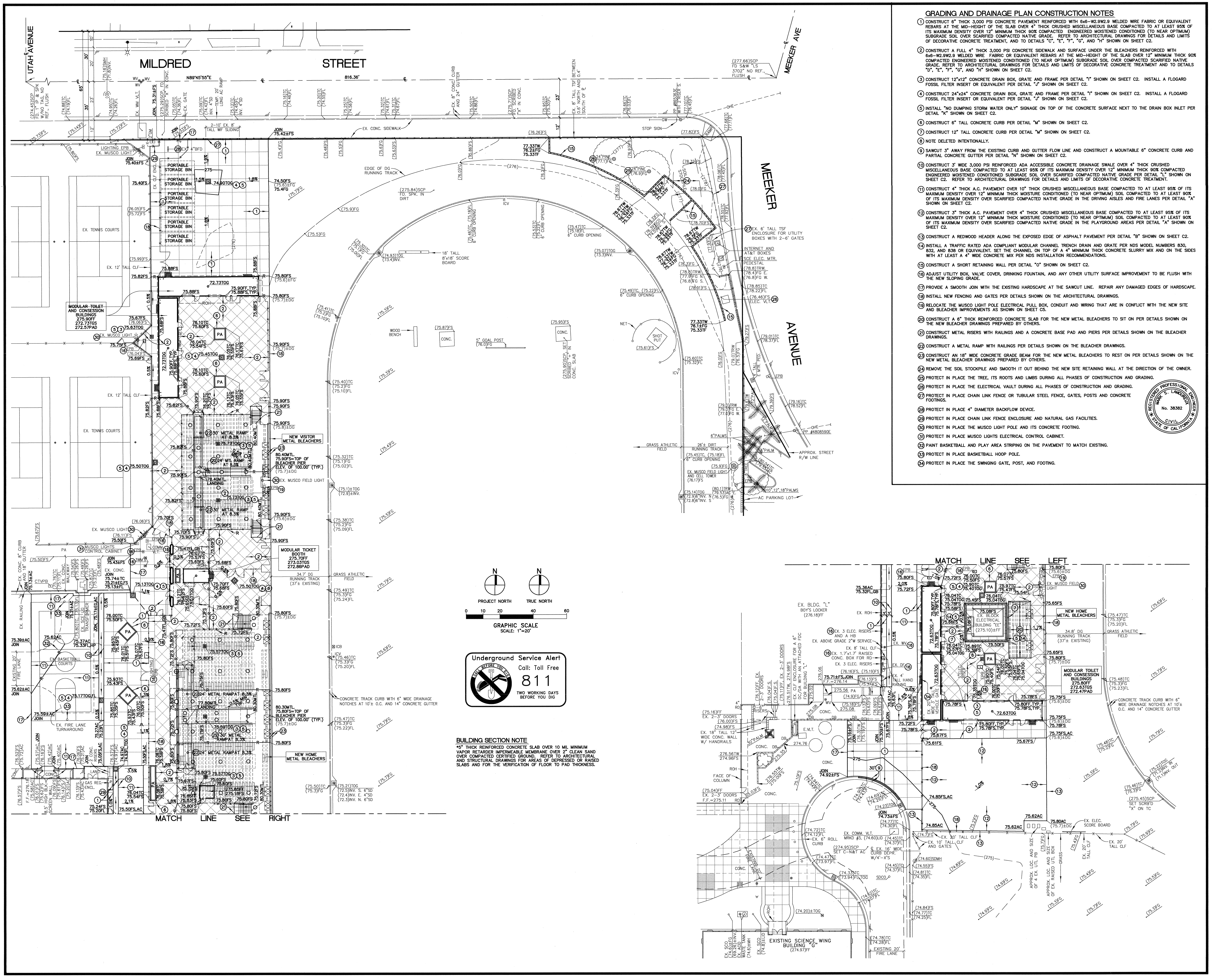
SHEET NUMBER: C3
SHEET TITLE:

DEMOLITION PLAN

SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C3dmo



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BUILDING SECTION NOTE

*5" THICK REINFORCED CONCRETE SLAB OVER 10 MIL MINIMUM VAPOR RETARDER IMPERMEABLE MEMBRANE OVER 2" CLEAN SAND OVER COMPACTED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS AND FOR THE VERIFICATION OF FLOOR TO PAD THICKNESS.

GRADING AND DRAINAGE PLAN CONSTRUCTION NOTES

① CONSTRUCT 6" THICK 3,000 PSI CONCRETE PAVEMENT REINFORCED WITH 6x6–W2.9W2.9 WELDED WIRE FABRIC OR EQUIVALENT REBARS AT THE MID–HEIGHT OF THE SLAB OVER 4" THICK CRUSHED MISCELLANEOUS BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK 90% COMPACTED ENGINEERED MOISTENED CONDITIONED (TO NEAR OPTIMUM) SUBGRADE SOIL OVER SCARIFIED COMPACTED NATIVE GRADE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND LIMITS OF DECORATIVE CONCRETE TREATMENT, AND TO DETAILS "C", "E", "F", "G", AND "H" SHOWN ON SHEET C2.

② CONSTRUCT A FULL 4" THICK 3,000 PSI CONCRETE SIDEWALK AND SURFACE UNDER THE BLEACHERS REINFORCED WITH 6x6–W2.9W2.9 WELDED WIRE FABRIC OR EQUIVALENT REBARS AT THE MID–HEIGHT OF THE SLAB OVER 12" MINIMUM THICK 90% COMPACTED ENGINEERED MOISTENED CONDITIONED (TO NEAR OPTIMUM) SUBGRADE SOIL OVER COMPACTED SCARIFIED NATIVE GRADE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND LIMITS OF DECORATIVE CONCRETE TREATMENT AND TO DETAILS "D", "E", "F", "G", AND "H" SHOWN ON SHEET C2.

③ CONSTRUCT 12"x12" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "I" SHOWN ON SHEET C2. INSTALL A FLOGARD FOSSIL FILTER INSERT OR EQUIVALENT PER DETAIL "J" SHOWN ON SHEET C2.

④ CONSTRUCT 24"x24" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "I" SHOWN ON SHEET C2. INSTALL A FLOGARD FOSSIL FILTER INSERT OR EQUIVALENT PER DETAIL "J" SHOWN ON SHEET C2.

⑤ INSTALL "NO DUMPING STORM WATER ONLY" SIGNAGE ON TOP OF THE CONCRETE SURFACE NEXT TO THE DRAIN BOX INLET PER DETAIL "K" SHOWN ON SHEET C2.

⑥ CONSTRUCT 6" TALL CONCRETE CURB PER DETAIL "M" SHOWN ON SHEET C2.

⑦ CONSTRUCT 12" TALL CONCRETE CURB PER DETAIL "M" SHOWN ON SHEET C2.

⑧ NOTE DELETED INTENTIONALLY.

⑨ SAWCUT 3" AWAY FROM THE EXISTING CURB AND GUTTER FLOW LINE AND CONSTRUCT A MOUNTABLE 6" CONCRETE CURB AND PARTIAL CONCRETE GUTTER PER DETAIL "N" SHOWN ON SHEET C2.

⑩ CONSTRUCT 3' WIDE 3,000 PSI REINFORCED ADA ACCESSIBLE CONCRETE DRAINAGE SWALE OVER 4" THICK CRUSHED MISCELLANEOUS BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK 90% COMPACTED ENGINEERED MOISTENED CONDITIONED SUBGRADE SOIL OVER SCARIFIED COMPACTED NATIVE GRADE PER DETAIL "L" SHOWN ON SHEET C2. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND LIMITS OF DECORATIVE CONCRETE TREATMENT.

⑪ CONSTRUCT 4" THICK A.C. PAVEMENT OVER 10" THICK CRUSHED MISCELLANEOUS BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK MOISTURE CONDITIONED (TO NEAR OPTIMUM) SOIL COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER SCARIFIED COMPACTED NATIVE GRADE IN THE DRIVING AISLES AND FIRE LANES PER DETAIL "A" SHOWN ON SHEET C2.

⑫ CONSTRUCT 3" THICK A.C. PAVEMENT OVER 4" THICK CRUSHED MISCELLANEOUS BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK MOISTURE CONDITIONED (TO NEAR OPTIMUM) SOIL COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER SCARIFIED COMPACTED NATIVE GRADE IN THE PLAYGROUND AREAS PER DETAIL "A" SHOWN ON SHEET C2.

⑬ CONSTRUCT A REDWOOD HEADER ALONG THE EXPOSED EDGE OF ASPHALT PAVEMENT PER DETAIL "B" SHOWN ON SHEET C2.

⑭ INSTALL A TRAFFIC RATED ADA COMPLIANT MODULAR CHANNEL TRENCH DRAIN AND GRATE PER NDS MODEL NUMBERS 830, 832, AND 838 OR EQUIVALENT. SET THE CHANNEL ON TOP OF A 4" MINIMUM THICK CONCRETE SLURRY MIX AND ON THE SIDES WITH AT LEAST A 4" WIDE CONCRETE MIX PER NDS INSTALLATION RECOMMENDATIONS.

⑮ CONSTRUCT A SHORT RETAINING WALL PER DETAIL "O" SHOWN ON SHEET C2.

⑯ ADJUST UTILITY BOX, VALVE COVER, DRINKING FOUNTAIN, AND ANY OTHER UTILITY SURFACE IMPROVEMENT TO BE FLUSH WITH THE NEW SLOPING GRADE.

⑰ PROVIDE A SMOOTH JOIN WITH THE EXISTING HARDSCAPE AT THE SAWCUT LINE. REPAIR ANY DAMAGED EDGES OF HARDSCAPE.

⑱ INSTALL NEW FENCING AND GATES PER DETAILS SHOWN ON THE ARCHITECTURAL DRAWINGS.

⑲ RELOCATE THE MUSCO LIGHT POLE ELECTRICAL PULL BOX, CONDUIT AND WIRING THAT ARE IN CONFLICT WITH THE NEW SITE AND BLEACHER IMPROVEMENTS AS SHOWN ON SHEET C5.

⑳ CONSTRUCT A 6" THICK REINFORCED CONCRETE SLAB FOR THE NEW METAL BLEACHERS TO SIT ON PER DETAILS SHOWN ON THE NEW BLEACHER DRAWINGS PREPARED BY OTHERS.

㉑ CONSTRUCT METAL RISERS WITH RAILINGS AND A CONCRETE BASE PAD AND PIERS PER DETAILS SHOWN ON THE BLEACHER DRAWINGS.

㉒ CONSTRUCT A METAL RAMP WITH RAILINGS PER DETAILS SHOWN ON THE BLEACHER DRAWINGS.

㉓ CONSTRUCT AN 18" WIDE CONCRETE GRADE BEAM FOR THE NEW METAL BLEACHERS TO REST ON PER DETAILS SHOWN ON THE NEW METAL BLEACHER DRAWINGS PREPARED BY OTHERS.

㉔ REMOVE THE SOIL STOCKPILE AND SMOOTH IT OUT BEHIND THE NEW SITE RETAINING WALL AT THE DIRECTION OF THE OWNER.

㉕ PROTECT IN PLACE THE TREE, ITS ROOTS AND LIMBS DURING ALL PHASES OF CONSTRUCTION AND GRADING.

㉖ PROTECT IN PLACE THE ELECTRICAL VAULT DURING ALL PHASES OF CONSTRUCTION AND GRADING.

㉗ PROTECT IN PLACE CHAIN LINK FENCE OR TUBULAR STEEL FENCE, GATES, POSTS AND CONCRETE FOOTINGS.

㉘ PROTECT IN PLACE 4" DIAMETER BACKFLOW DEVICE.

㉙ PROTECT IN PLACE CHAIN LINK FENCE ENCLOSURE AND NATURAL GAS FACILITIES.

㉚ PROTECT IN PLACE THE MUSCO LIGHT POLE AND ITS CONCRETE FOOTING.

㉛ PROTECT IN PLACE MUSCO LIGHTS ELECTRICAL CONTROL CABINET.

㉜ PAINT BASKETBALL AND PLAY AREA STRIPING ON THE PAVEMENT TO MATCH EXISTING.

㉝ PROTECT IN PLACE BASKETBALL HOOP POLE.

㉞ PROTECT IN PLACE THE SWINGING GATE, POST, AND FOOTING.

MARK S. LAMOUREUX
No. 38382
CIVIL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
M S L E N G I N E E R I N G , I N C .
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305–2395 FAX (909) 305–2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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GRADING AND DRAINAGE PLAN

SVA
ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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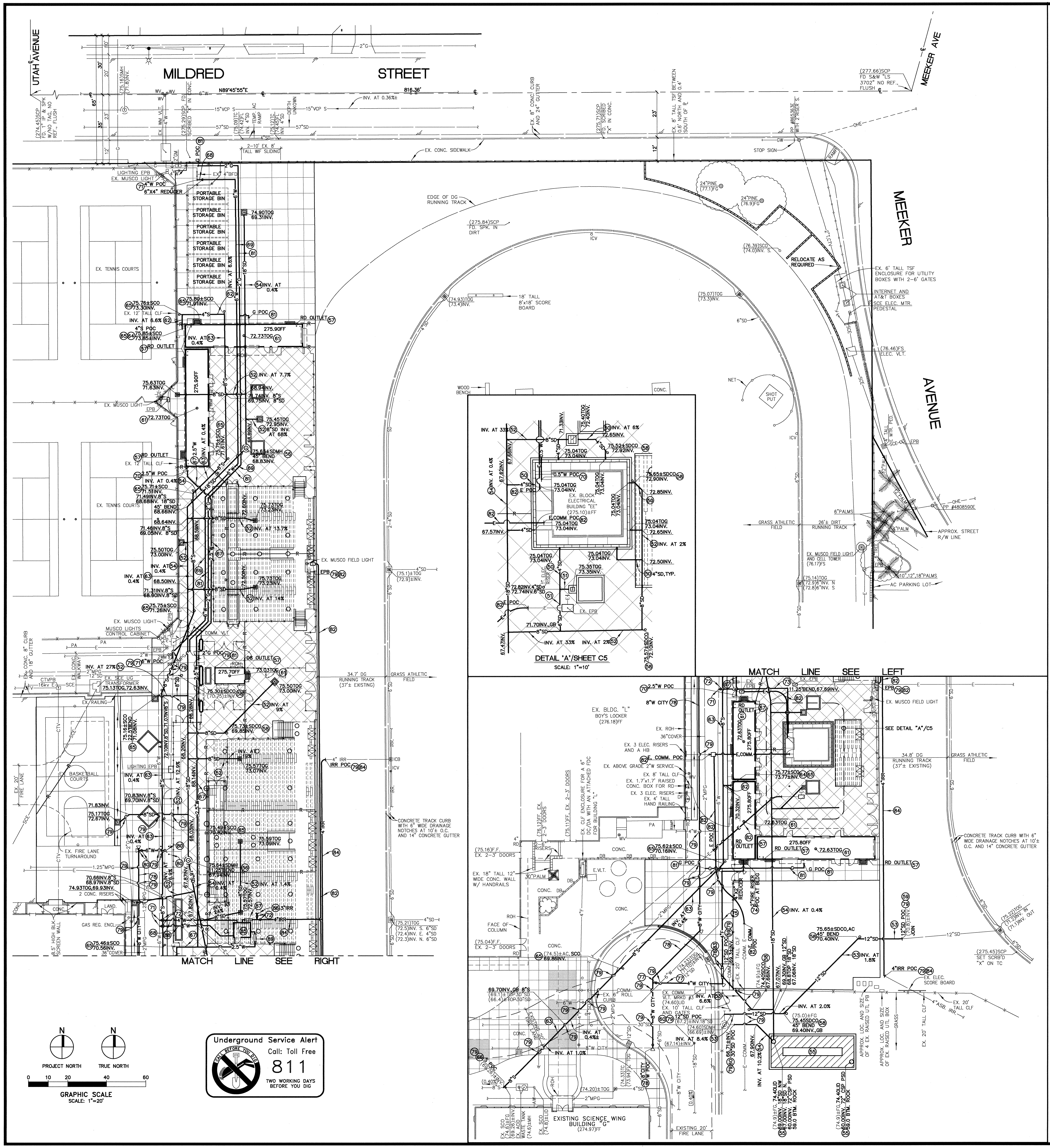

STORM DRAIN AND UTILITY PLAN CONSTRUCTION NOTES

(50) INSTALL 4" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(51) INSTALL 6" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(52) INSTALL 8" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(53) INSTALL 12" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(54) INSTALL 18" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(55) CONSTRUCT A 72" DIAMETER CORRUGATED STEEL PIPE PERFORATED STORM DRAIN UNDERGROUND RETENTION INFILTRATION TRENCH SYSTEM PER DETAIL "D" SHOWN ON SHEET C8. BURY RISER MANHOLE LIDS 6" BELOW GRADE OF PLAYFIELD.

(56) CONSTRUCT A PRECAST CONCRETE STORM DRAIN MANHOLE PER SPPWC STANDARD PLAN 200-3 AND 210-3 SHOWN ON SHEET C10 MODIFIED FOR A FLAT BOTTOM WITH NO CHANNELS.

(57) MODULAR BUILDING ROOF DRAIN OR DOWNSPOUT TO SPLASH 6" ABOVE GRADE PER SEPARATE DRAWINGS.

(58) INSTALL SINGLE WYE STORM DRAIN CLEANOUT ASSEMBLY PER DETAIL "A" SHOWN ON SHEET C8.

(59) CONNECT NEW STORM DRAIN PIPE TO AN EXISTING PRIVATE STORM DRAIN PIPE WITH ALL REQUIRED FITTINGS AND A CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4 SHOWN ON SHEET C10. CONFIRM LOCATION, SIZE, MATERIAL, AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE STORM DRAIN PIPE.

(60) CORE DRILL THROUGH STORM DRAIN PIPE OR FITTING FOR THE NEW SITE STORM DRAIN PIPE CONNECTION. PROVIDE A TIGHT SEAL BETWEEN THE PIPES AND BACKFILL WITH CONCRETE SLURRY.

(61) INSTALL A SMALL DRYWELL UNDER THE NEW MODULAR BUILDING PER DETAIL "E" SHOWN ON SHEET C8.

(62) INSTALL 4" DIAMETER SDR26 P.V.C. SANITARY SEWER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(63) INSTALL 8" DIAMETER SDR26 P.V.C. SANITARY SEWER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(64) CONNECT NEW SITE SEWER PIPE TO BUILDING SEWER AT A POINT 5 FEET FROM THE BUILDING PER DETAILS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE SEWER PIPE.

(65) INSTALL SINGLE-WYE SANITARY SEWER CLEANOUT ASSEMBLY PER DETAIL "B" SHOWN ON SHEET C8.

(66) CONNECT NEW SEWER PIPE TO AN EXISTING PRIVATE SEWER PIPE WITH ALL REQUIRED FITTINGS. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE SEWER PIPE.

(67) INSTALL 2.5" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(68) INSTALL 4" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(69) INSTALL 6" DIAMETER C900 CLASS 200 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(70) CONNECT SITE WATER PIPE TO BUILDING WATER AT A POINT 5 FEET FROM THE BUILDING. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE WATER PIPE. INSTALL SHUT OFF BALL VALVE WITH A GALVANIZED CAN ASSEMBLY AND A VANDAL PROOF GALVANIZED ACCESS LID MARKED "WATER" AT GRADE PER DETAILS SHOWN ON THE ARCHITECTURAL PLANS.

(71) CONNECT NEW WATER PIPE TO AN EXISTING PRIVATE WATER PIPE. CONTRACTOR TO CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE WATER PIPE.

(72) INSTALL A PRIVATE WATER GATE VALVE MATCHING THE SAME SIZE AS THE PIPE DIAMETER WITH A GALVANIZED VALVE CAN ASSEMBLY AND A VANDAL PROOF GALVANIZED ACCESS LID MARKED "WATER" AT GRADE.

(73) INSTALL 0.5" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(74) CONNECT NEW SITE FIRE LINE PIPE TO BUILDING FIRE LINE AT A POINT 5 FEET FROM THE BUILDING. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE FIRE LINE PIPE. REFER TO DETAIL "A" SHOWN ON SHEET C9.

*(75) INSTALL 4" DIAMETER C900 CLASS 200 P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS TO WITHIN 5 FEET OF THE BUILDING. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9. MINIMUM PIPE COVER SHALL BE 30" IN NON-TRAFFIC AREAS AND 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

*(76) INSTALL CITY 4" DIAMETER FIRE SERVICE DC/DA BACKFLOW PREVENTOR WITH AN ATTACHED FIRE DEPARTMENT CONNECTION PER CITY OF EL MONTE WATER STANDARD DWG. NO. W-8 AND W-17 SHOWN ON SHEET C9. INSTALL TAMPER FLOW SWITCH TO DOUBLE DETECTOR CHECK VALVE SERVICE ASSEMBLY AND CONNECT WITH FIRE ALARM PANEL IN BUILDING PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. FINAL LOCATION AND ALL INSTALLATION DETAILS TO BE PREPARED AND SUBMITTED BY THE FIRE SPRINKLER SUBCONTRACTOR TO THE ARCHITECT AFTER APPROVAL BY THE LOCAL FIRE MARSHAL. ALL WORK TO BE DONE PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING/DETERMINING THE SIZE OF THE FIRE SERVICE ASSEMBLY AND THE LOCATION OF ALL PIPING AND RELATED FACILITIES PRIOR TO INSTALLATION. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(77) CONNECT TO THE EXISTING 8" DIAMETER CITY WATER MAIN WITH ALL REQUIRED FITTINGS AND INSTALL A 4" DIAMETER WATER VALVE AND CAN ASSEMBLY PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-11 AND W-12 SHOWN ON SHEET C9. INSTALL 4" DIAMETER C900 CLASS 200 P.V.C. PUBLIC WATER LINE AND DUCTILE IRON FITTINGS PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-8 SHOWN ON SHEET C9. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL "B" SHOWN ON SHEET C9. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. MINIMUM PIPE COVER SHALL BE 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(78) CONNECT TO THE EXISTING 8" DIAMETER CITY WATER MAIN WITH ALL REQUIRED FITTINGS AND INSTALL AN 8" DIAMETER WATER VALVE AND CAN ASSEMBLY PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-11 AND W-12 SHOWN ON SHEET C9. INSTALL 8" DIAMETER C900 CLASS 200 P.V.C. PUBLIC WATER LINE AND DUCTILE IRON FITTINGS PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-8 SHOWN ON SHEET C9. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL "B" SHOWN ON SHEET C9. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. MINIMUM PIPE COVER SHALL BE 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(79) CONTRACTOR SHALL POTHOLE ALL EXISTING STORM DRAIN AND UTILITY PROPOSED POINTS OF CONNECTION AND ALL EXISTING STORM DRAIN AND UTILITY CONFLICTS WITH PROPOSED PIPING TO VERIFY LOCATION SIZE, ELEVATION AND TYPE OF PIPE MATERIAL PRIOR TO INSTALLING ANY NEW UTILITY OR STORM DRAIN PIPE IN ORDER TO RESOLVE ANY AND ALL POTENTIAL CONFLICTS WITH THE PROPOSED PIPE. RELOCATE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED PIPE PER CURRENT CODE.

(80) INSTALL 6"x4"x2.5" PUBLIC FIRE HYDRANT PAINTED YELLOW AND A 6" DIAMETER GATE VALVE PER CITY OF EL MONTE STANDARD DRAWING NO. W-10 SHOWN ON SHEET C9. INSTALL 4 BOLLARDS 3 FEET EVENLY SPACED AWAY FROM THE FIRE HYDRANT PER CITY OF EL MONTE STANDARD DRAWING NO. W-13 SHOWN ON SHEET C9.

(81) INSTALL NATURAL GAS SITE PIPE, PRESSURE REGULATORS, AND RELATED IMPROVEMENTS PER CURRENT CODE. CONNECT TO NEW BUILDING PER DETAILS SHOWN ON THE MODULAR BUILDING AND ARCHITECTURAL PLUMBING PLANS PREPARED BY OTHERS.

(82) INSTALL ELECTRIC, COMMUNICATION, CABLE TELEVISION, AND FIRE ALARM SITE REPLACEMENT CONDUIT, WIRING, AND PULL BOXES, AND RELATED IMPROVEMENTS TO MATCH EXISTING PER CURRENT CODE.

*(83) CONSTRUCT A CHAIN LINK FENCE ENCLOSURE OVER AND AROUND THE NEW 4" DIAMETER DC/DA WITH AN ATTACHED FIRE DEPARTMENT CONNECTION (FDC) TO MATCH THE EXISTING CONDITION IN FRONT OF BUILDING "L". PROVIDE A 3' WIDE LOCKABLE MANGATE AND A HOLE IN THE FENCE OPPOSITE THE FDC NOZZLES FOR FIRE DEPARTMENT ACCESS.

(84) INSTALL 4" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. IRRIGATION PIPE AND FITTINGS PER CURRENT CODE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(85) CONSTRUCT AN IRRIGATION PUMP HOUSE REPLACEMENT BUILDING WITH INTERIOR AND EXTERIOR PIPING AND PUMPS PER DESIGN PLANS PREPARED BY THE ARCHITECT AND PLUMBING ENGINEER.

(86) INSTALL 3" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. IRRIGATION PIPE AND FITTINGS PER CURRENT CODE FROM THE PUMP HOUSE NORTHWESTERLY TO A POINT NEAR THE SOUTHEAST CORNER OF THE TENNIS COURTS AT A POINT OF CONNECTION WITH THE IRRIGATION MAIN LINE THAT SERVICES THE TURF ATHLETIC FIELDS WEST OF THE TENNIS COURTS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(87) INSTALL A SALVAGED BOOSTER PUMP AND BACKFLOW PREVENTER FOR IRRIGATION PURPOSES FROM THE REMOVED IRRIGATION PUMP HOUSE SHOWN ON SHEET C3 AND INSTALL THEM AS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS.

(88) INSTALL 3" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(89) INSTALL A 3" DIAMETER REDUCED PRESSURE PRINCIPLE WILKENS MODEL NO. 475 BACKFLOW PREVENTER AS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS

*THESE NOTES ARE "FOR REFERENCE ONLY". SEPARATE DETAILED SITE FIRE PREVENTION IMPROVEMENT PLANS PREPARED BY THE CONTRACTOR ARE TO BE SUBMITTED TO, AND BE APPROVED BY, THE FIRE DEPARTMENT FOR ALL FIRE PROTECTION SYSTEMS.

NOTE:

REFER TO SITE ELECTRICAL DRAWINGS PREPARED BY THE ARCHITECTURAL ELECTRICAL ENGINEER FOR THE LOCATION OF NEW UNDERGROUND CONDUIT, VAULTS/PULL BOXES AND LIGHT POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL NEW UTILITY AND STORM DRAIN IMPROVEMENTS AND RESOLVING ALL CONFLICTS WITH EXISTING IMPROVEMENTS. THE NEW UNDERGROUND ELECTRICAL LINES SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY AND ARE FOR THE PURPOSE OF REPLACING THE UNDERGROUND IMPROVEMENTS REMOVED AS A RESULT OF THE GEOTECHNICAL ENGINEER REQUIRED LIMITS OF OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL AND FOR THE CONSTRUCTION OF THE NEW BUILDINGS AND BLEACHER STRUCTURES.

No. 38382

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

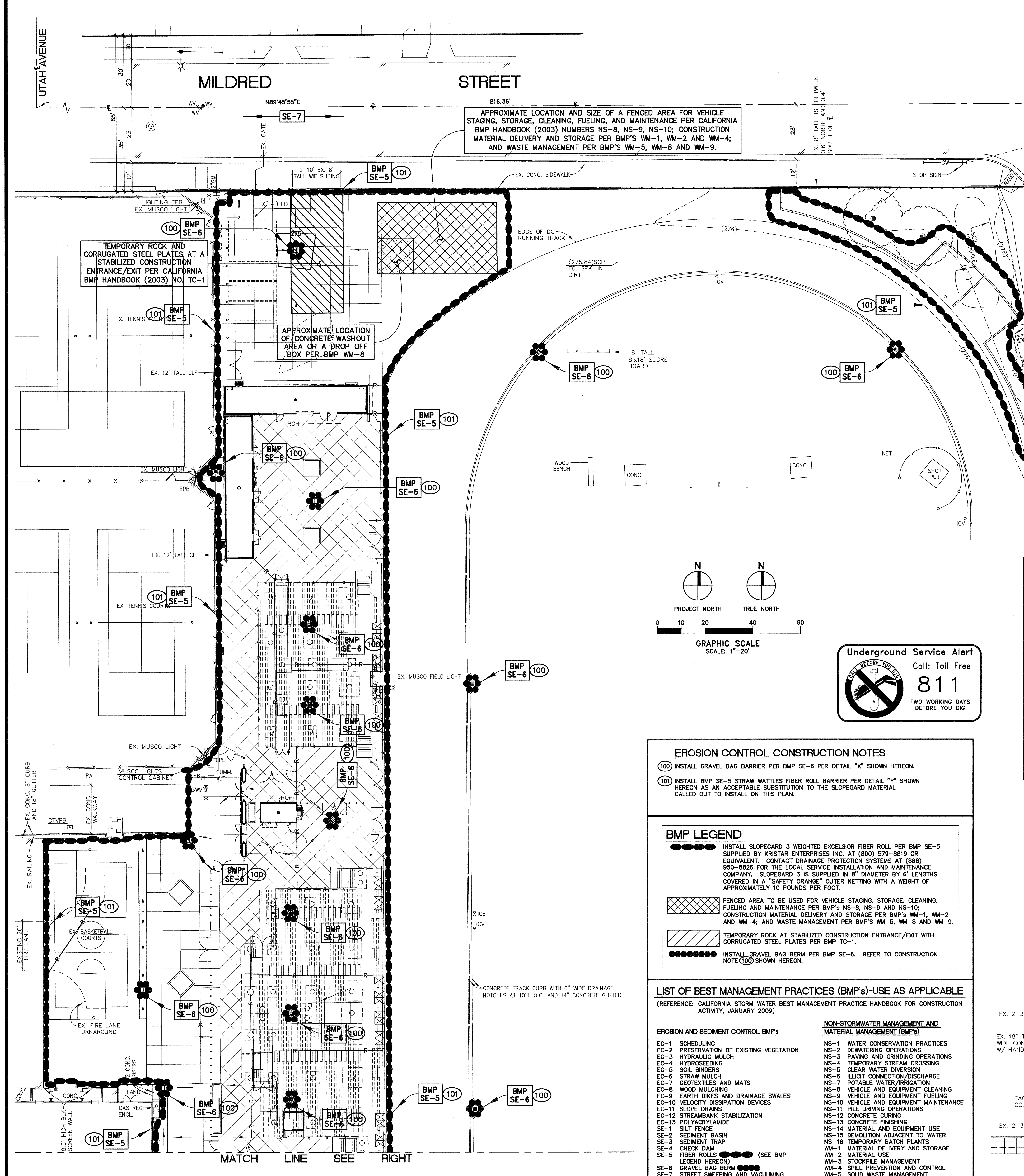
SHEET NUMBER: **C5**
SHEET TITLE:

STORM DRAIN AND UTILITY PLAN

ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C5utl


UTAH AVENUE
MILDRED
STREET
MEEKER AVE
MEEKER
AVENUE
N89°45'55"E 816.36'
SE-7
APPROXIMATE LOCATION AND SIZE OF A FENCED AREA FOR VEHICLE STAGING, STORAGE, CLEANING, FUELING, AND MAINTENANCE PER CALIFORNIA BMP HANDBOOK (2003) NUMBERS NS-8, NS-9, NS-10; CONSTRUCTION MATERIAL DELIVERY AND STORAGE PER BMP'S WM-1, WM-2 AND WM-4; AND WASTE MANAGEMENT PER BMP'S WM-5, WM-8 AND WM-9.
TEMPORARY ROCK AND CORRUGATED STEEL PLATES AT A STABILIZED CONSTRUCTION ENTRANCE/EXIT PER CALIFORNIA BMP HANDBOOK (2003) NO. TC-1
APPROXIMATE LOCATION OF CONCRETE WASHOUT AREA OR A DROP OFF BOX PER BMP WM-8
EX. CONC. SIDEWALK
STOP SIGN
EDGE OF DG RUNNING TRACK
(275.84)SCP FD. SPK. IN DIRT
18' TALL 8'x18' SCORE BOARD
EX. 6' TALL TSF ENCLOSURE FOR UTILITY BOXES WITH 2-6' GATES
INTERNET AND AT&T BOXES
SCE ELEC. MTR. PEDESTAL
WOOD BENCH
CONC.
NET
SHOT PUT
EX. TENNIS COURT
EX. 12' TALL CLF
EX. MUSCO LIGHT
EX. MUSCO FIELD LIGHT
MUSCO LIGHTS CONTROL CABINET
EX. BASKETBALL COURTS
EX. FIRE LANE TURNAROUND
EXISTING 20' FIRE LANE
8.5' HIGH BLK. SCREEN WALL
GAS REG. ENCL.
CONCRETE TRACK CURB WITH 6" WIDE DRAINAGE NOTCHES AT 10's O.C. AND 14" CONCRETE GUTTER
BMP SE-5 (101)
BMP SE-6 (100)
MATCH LINE SEE RIGHT
PROJECT NORTH
TRUE NORTH
N
GRAPHIC SCALE
SCALE: 1"=20'
0 10 20 40 60

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EROSION CONTROL CONSTRUCTION NOTES

(100) INSTALL GRAVEL BAG BARRIER PER BMP SE-6 PER DETAIL "X" SHOWN HEREON.

(101) INSTALL BMP SE-5 STRAW WATTLES FIBER ROLL BARRIER PER DETAIL "Y" SHOWN HEREON AS AN ACCEPTABLE SUBSTITUTION TO THE SLOPEGARD MATERIAL CALLED OUT TO INSTALL ON THIS PLAN.

BMP LEGEND

⬬⬬⬬⬬	INSTALL SLOPEGARD 3 WEIGHTED EXCELSIOR FIBER ROLL PER BMP SE-5 SUPPLIED BY KRISTAR ENTERPRISES INC. AT (800) 579-8819 OR EQUIVALENT. CONTACT DRAINAGE PROTECTION SYSTEMS AT (888) 950-8826 FOR THE LOCAL SERVICE INSTALLATION AND MAINTENANCE COMPANY. SLOPEGARD 3 IS SUPPLIED IN 8" DIAMETER BY 6' LENGTHS COVERED IN A "SAFETY ORANGE" OUTER NETTING WITH A WEIGHT OF APPROXIMATELY 10 POUNDS PER FOOT.
▩	FENCED AREA TO BE USED FOR VEHICLE STAGING, STORAGE, CLEANING, FUELING AND MAINTENANCE PER BMP's NS-8, NS-9 AND NS-10; CONSTRUCTION MATERIAL DELIVERY AND STORAGE PER BMP's WM-1, WM-2 AND WM-4; AND WASTE MANAGEMENT PER BMP'S WM-5, WM-8 AND WM-9.
▨	TEMPORARY ROCK AT STABILIZED CONSTRUCTION ENTRANCE/EXIT WITH CORRUGATED STEEL PLATES PER BMP TC-1.
●●●●●●●●	INSTALL GRAVEL BAG BERM PER BMP SE-6. REFER TO CONSTRUCTION NOTE (100) SHOWN HEREON.

LIST OF BEST MANAGEMENT PRACTICES (BMP's)-USE AS APPLICABLE

(REFERENCE: CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK FOR CONSTRUCTION ACTIVITY, JANUARY 2009)

EROSION AND SEDIMENT CONTROL BMP's

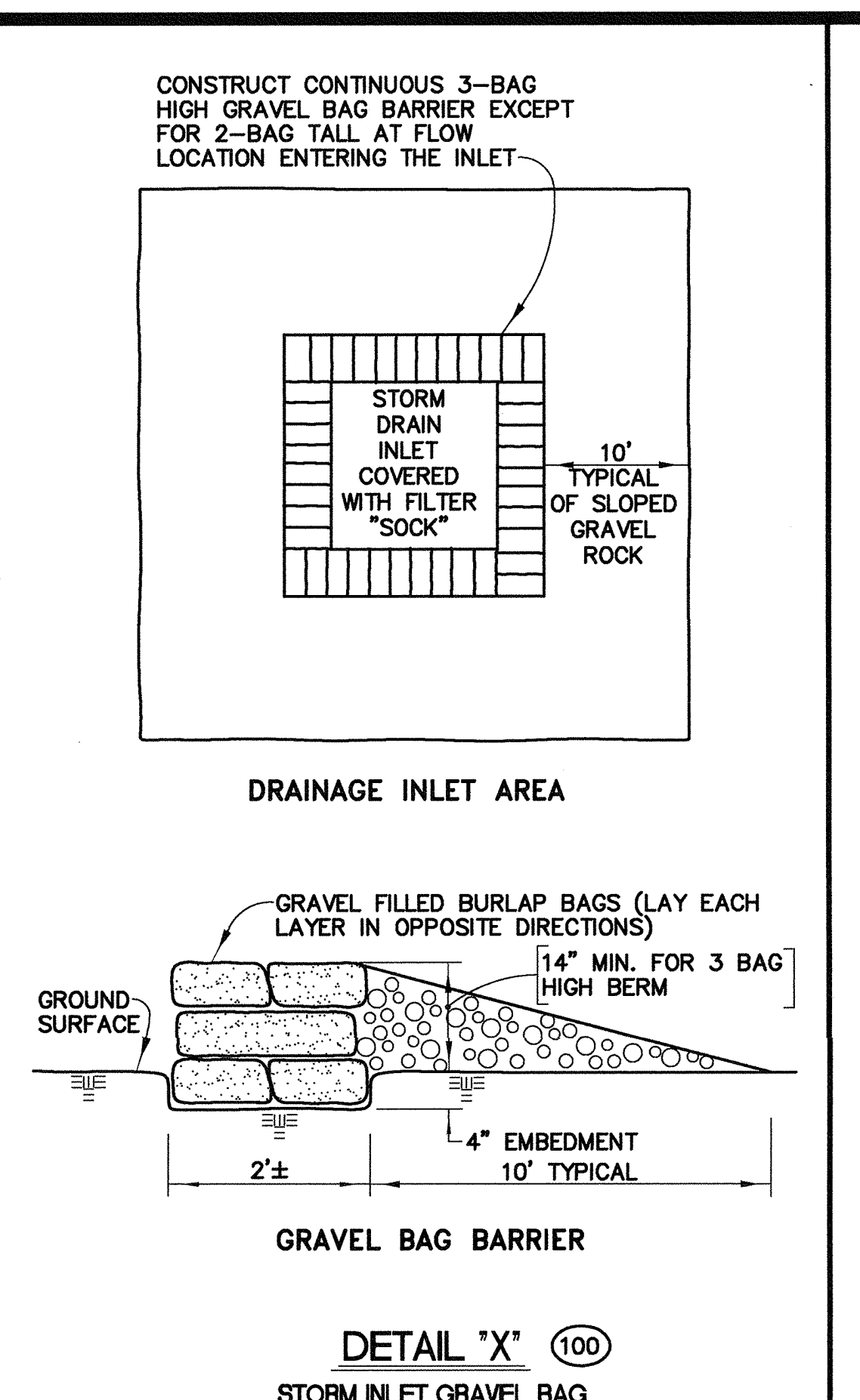
EC-1	SCHEDULING
EC-2	PRESERVATION OF EXISTING VEGETATION
EC-3	HYDRAULIC MULCH
EC-4	HYDROSEEDING
EC-5	SOIL BINDERS
EC-6	STRAW MULCH
EC-7	GEOTEXTILES AND MATS
EC-8	WOOD MULCHING
EC-9	EARTH DIKES AND DRAINAGE SWALES
EC-10	VELOCITY DISSIPATION DEVICES
EC-11	SLOPE DRAINS
EC-12	STREAMBANK STABILIZATION
EC-13	POLYACRYLAMIDE
SE-1	SILT FENCE
SE-2	SEDIMENT BASIN
SE-3	SEDIMENT TRAP
SE-4	CHECK DAM
SE-5	FIBER ROLLS ⬬⬬⬬ (SEE BMP LEGEND HEREON)
SE-6	GRAVEL BAG BERM ●●●●
SE-7	STREET SWEEPING AND VACUUMING
SE-9	STRAW BALE BARRIER
SE-10	STORM DRAIN INLET PROTECTION
WE-1	WIND EROSION CONTROL
TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2	STABILIZED CONSTRUCTION ROADWAY
TC-3	ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT AND MATERIAL MANAGEMENT (BMP's)

NS-1	WATER CONSERVATION PRACTICES
NS-2	DEWATERING OPERATIONS
NS-3	PAVING AND GRINDING OPERATIONS
NS-4	TEMPORARY STREAM CROSSING
NS-5	CLEAR WATER DIVERSION
NS-6	ILLICIT CONNECTION/DISCHARGE
NS-7	POTABLE WATER/IRRIGATION
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-11	PILE DRIVING OPERATIONS
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
NS-14	MATERIAL AND EQUIPMENT USE
NS-15	DEMOLITION ADJACENT TO WATER
NS-16	TEMPORARY BATCH PLANTS
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT

LIST OF MAJOR CONSTRUCTION MATERIALS, WASTE AND ACTIVITIES AT THE PROJECT SITE

1. CONCRETE AND ASPHALT PAVEMENT.
2. CONCRETE CURBS, SEATWALLS, AND WALKS.
3. CONSTRUCTION OF NEW MODULAR BUILDINGS AND METAL BLEACHER STRUCTURES.
4. STORM DRAIN PIPE AND INLETS.
5. UTILITY SERVICE TO THE NEW BUILDINGS.
6. LANDSCAPING AND IRRIGATION.
7. ONSITE EARTHWORK MOVED AND GRADED AND EXPORT OF EXCESS SOIL OFFSITE.


CONSTRUCT CONTINUOUS 3-BAG HIGH GRAVEL BAG BARRIER EXCEPT FOR 2-BAG TALL AT FLOW LOCATION ENTERING THE INLET
STORM DRAIN INLET COVERED WITH FILTER "SOCK"
10' TYPICAL OF SLOPED GRAVEL ROCK
DRAINAGE INLET AREA
GRAVEL FILLED BURLAP BAGS (LAY EACH LAYER IN OPPOSITE DIRECTIONS)
14" MIN. FOR 3 BAG HIGH BERM
GROUND SURFACE
4" EMBEDMENT
2'±
10' TYPICAL
GRAVEL BAG BARRIER

DETAIL "X" (100)

STORM INLET GRAVEL BAG PROTECTION DETAIL AND BARRIER DETAIL OPTION

NOT TO SCALE

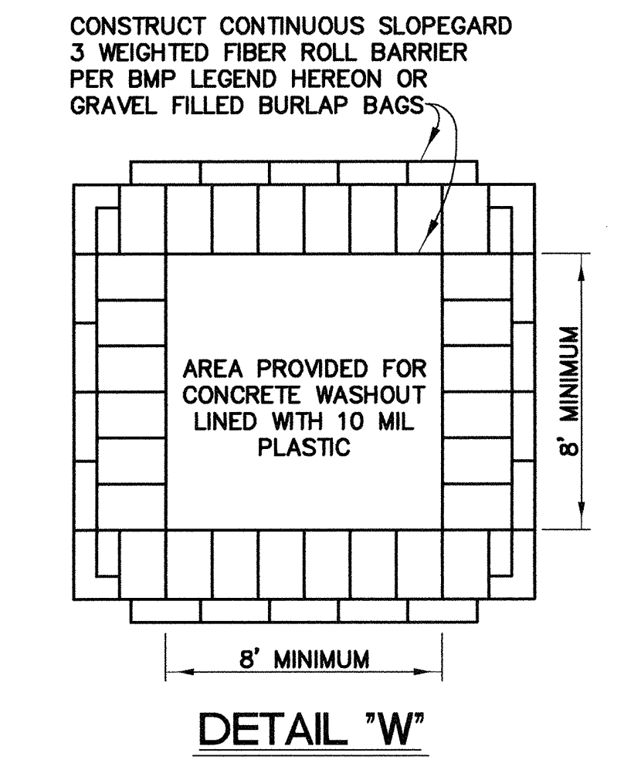
EROSION CONTROL PLAN GENERAL NOTES

1. THIS EROSION CONTROL PLAN WAS PREPARED AT THE REQUEST OF SVA ARCHITECTS FOR THE EL MONTE UNION HIGH SCHOOL DISTRICT, IN THE CITY OF EL MONTE, CALIFORNIA. THE PROPOSED CONSTRUCTION ACTIVITY INCLUDES CONSTRUCTION OF NEW BLEACHERS, NEW MODULAR BUILDINGS, A SHORT WALL FOR MATERIAL STORAGE AT THE NORTHEAST CORNER OF THE TRACK, NEW HARDSCAPE, AND LANDSCAPING OVER THE EAST PORTION OF THE EL MONTE HIGH SCHOOL CAMPUS WITH A TOTAL OF 1.4 ACRES OF TOTAL AREA CONSTRUCTED/GRADED. THE EROSION CONTROL PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ONSITE DURING CONSTRUCTION ACTIVITY. THE APPLICABLE BMP'S (BEST MANAGEMENT PRACTICE) LISTED ON THIS PLAN AND WITHIN THE SWPPP SHALL BE IMPLEMENTED AS SOON AS POSSIBLE TO CONTROL STORM WATER POLLUTION DURING CONSTRUCTION.
2. THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE A STATE CERTIFIED QUALIFIED SWPPP DEVELOPER (QSD) ASSIGNED TO THE PROJECT IN ACCORDANCE WITH SECTION VII OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITY (CONSTRUCTION GENERAL PERMIT). THE QSD IS RESPONSIBLE FOR ALL CHANGES TO THE PROJECT SWPPP AND EROSION CONTROL PLAN.
3. THROUGHOUT THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE A STATE CERTIFIED QUALIFIED SWPPP PRACTITIONER (QSP) ASSIGNED TO THE PROJECT IN ACCORDANCE WITH SECTION VII OF THE CONSTRUCTION GENERAL PERMIT (CGP). THE QSP IS RESPONSIBLE FOR IMPLEMENTATION OF ALL ASPECTS OF THE EROSION CONTROL PLAN, THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE SWPPP SPECIFICATIONS.
4. THE QSP OR PERSONNEL TRAINED BY THE QSP ARE RESPONSIBLE FOR PROVIDING WEEKLY, QUARTERLY, PRE-STORM, DURING STORM AND POST STORM BMP INSPECTIONS IN ACCORDANCE TO THE SWPPP. ALL INSPECTION RECORDS SHALL BE KEPT ONSITE FOR THE DURATION OF THE PROJECT.
5. ALL CONTRACTORS AND THEIR PERSONNEL WHOSE WORK CAN CONTRIBUTE TO OR CAUSE STORM WATER POLLUTION SHOULD BE MADE FAMILIAR WITH THIS PLAN AND THE SWPPP. ADEQUATE TRAINING FOR THE IMPLEMENTATION OF THE MEASURES PRESENTED HEREIN SHALL BE PROVIDED BY THE CONTRACTORS FOR THEIR PERSONNEL.
6. CHANGES IN CONSTRUCTION OR IN CONDITIONS WHICH ARE NOT COVERED BY THIS PLAN SHOULD BE BROUGHT TO THE ATTENTION OF THE QSD. IF NECESSARY THIS PLAN WILL BE REVISED TO REFLECT THE CHANGES.
7. ALL PREVENTION AND CLEAN UP MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES ORDINANCES, AS WELL AS STATE, AND FEDERAL REGULATIONS. WASTE MATERIALS SHOULD BE DISPOSED OF IN A LEGAL MANNER.
8. ONLY STORM WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO FLOW INTO THE PUBLIC STORM DRAIN SYSTEM. REGULAR INSPECTION OF THE STRUCTURAL AND NON-STRUCTURAL BEST MANAGEMENT PRACTICES USED ON THIS PROJECT SHALL BE PERFORMED IN CONFORMANCE WITH THE SWPPP TO INSURE PROPER OPERATION.
9. ON A DAILY BASIS, AS-NECESSARY, AND AFTER CONSTRUCTION HAS BEEN COMPLETED, THE SITE HARDSCAPE AND ADJOINING STREETS AND SIDEWALKS SHALL BE SWEPT CLEAN. ALL WASTE AND LEFTOVER MATERIALS SHALL BE REMOVED FROM THE SITE. ALL LANDSCAPING AND PLANTING AREAS SHALL BE WELL MAINTAINED TO PREVENT EROSION. AVOID OVERWATERING.
10. DISTURBED SOILS SHALL BE WATERED AS OFTEN AS NECESSARY TO KEEP SOIL VISIBLY DAMP DURING GRADING AND CONSTRUCTION TO MINIMIZE DUST GENERATION. COMPLY WITH AQMD RULE 403 TO INSURE THE CLEANUP OF CONSTRUCTION RELATED DIRT ON APPROACH ROUTES TO THE SITE.
11. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM GRAVEL BAG BARRIERS.
12. , PROJECT CONSTRUCTION MANAGER (UNTIL A QSP HIRED BY THE GENERAL CONTRACTOR HAS BEEN ASSIGNED) SHALL BE NOTIFIED AT ( ) - IN AN EMERGENCY.
13. THE QSP SHALL PREPARE AN ANNUAL REPORT FOR EACH REPORTING PERIOD FROM JULY 1st TO JUNE 30th. THE ANNUAL REPORT SHALL INCLUDE STORMWATER MONITORING INFORMATION AND DOCUMENTATION OF ALL TRAINING AND BMP INSPECTIONS.
14. WITHIN 90 DAYS OF THE FINAL COMPLETION OF CONSTRUCTION THE QSP SHALL ELECTRONICALLY FILE A NOTICE OF TERMINATION (NOT) THROUGH SMARTS AND UPLOAD A FINAL SITE MAP AND PHOTOS. ADDITIONALLY THE QSP SHALL UPLOAD THE FINAL ANNUAL REPORT.
15. I DO HEREBY CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WILL BE CARRIED OUT UNDER MY DIRECTION AND SUPERVISION. I UNDERSTAND THAT AT THE CONCLUSION OF THIS PROJECT, I WILL BE REQUIRED TO SUBMIT CERTIFICATION THAT ALL ELEMENTS OF THIS PROJECT WERE CARRIED OUT IN ACCORDANCE WITH THIS EROSION CONTROL PLAN AND ALL OF ITS ATTACHMENTS.

WITH FOR THE EL MONTE UNION HIGH SCHOOL DISTRICT (OR AN ASSIGNED REPRESENTATIVE IN CONJUNCTION WITH THE SUCCESSFUL GENERAL CONTRACTOR)

NAME ____________________ DATE 05-06-16

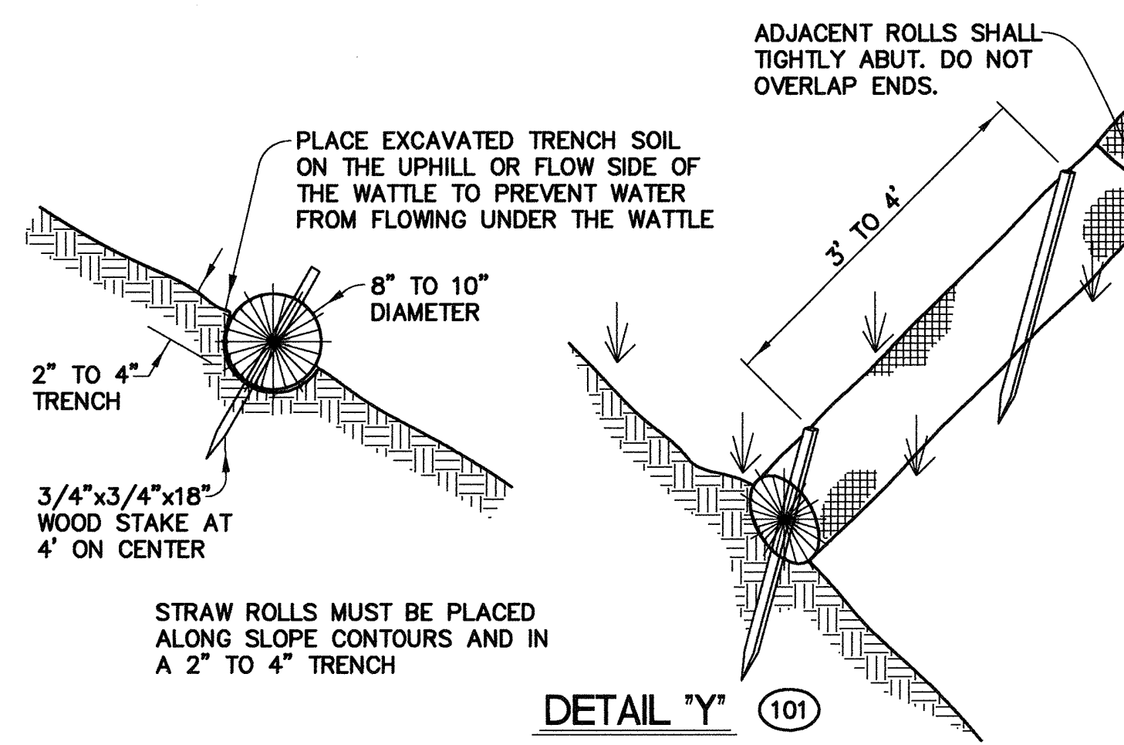
PROJECT N.P.D.E.S. COORDINATOR
TITLE ____________________ TELEPHONE NUMBER ____________________


CONSTRUCT CONTINUOUS SLOPEGARD 3 WEIGHTED FIBER ROLL BARRIER PER BMP LEGEND HEREON OR GRAVEL FILLED BURLAP BAGS
AREA PROVIDED FOR CONCRETE WASHOUT LINED WITH 10 MIL PLASTIC
8' MINIMUM
8' MINIMUM

DETAIL "W"

CONCRETE WASHOUT AREA

NOT TO SCALE


PLACE EXCAVATED TRENCH SOIL ON THE UPHILL OR FLOW SIDE OF THE WATTLE TO PREVENT WATER FROM FLOWING UNDER THE WATTLE
8" TO 10" DIAMETER
2" TO 4" TRENCH
3/4"x3/4"x18" WOOD STAKE AT 4' ON CENTER
STRAW ROLLS MUST BE PLACED ALONG SLOPE CONTOURS AND IN A 2" TO 4" TRENCH
ADJACENT ROLLS SHALL TIGHTLY ABUT. DO NOT OVERLAP ENDS.
3' TO 4'

DETAIL "Y" (101)

STRAW WATTLES BARRIER DETAIL OPTION

NOT TO SCALE

SPECIFICATION:

STRAW WATTLES SHALL BE MANUFACTURED FROM RICE STRAW AND SHALL BE WRAPPED IN A TUBULAR BLACK PLASTIC NETTING. THE NETTING SHALL HAVE A STRAND THICKNESS OF 0.30 INCH, A KNOT THICKNESS OF 0.055, AND A WEIGHT OF 0.35 OUNCE PER FOOT (EACH PLUS/ MINUS 10%) AND SHALL BE MADE FROM 85% HIGH DENSITY POLYETHYLENE, 14% ETHYL VINYL ACETATE AND 1% COLOR FOR UV INHIBITION. STRAW WATTLES SHALL BE NINE INCHES IN DIAMETER (PLUS OR MINUS ONE INCH), TWENTY-FIVE FEET LONG (PLUS OR MINUS 0.5 FEET) AND WEIGH 35 LBS. (PLUS OR MINUS 10%).

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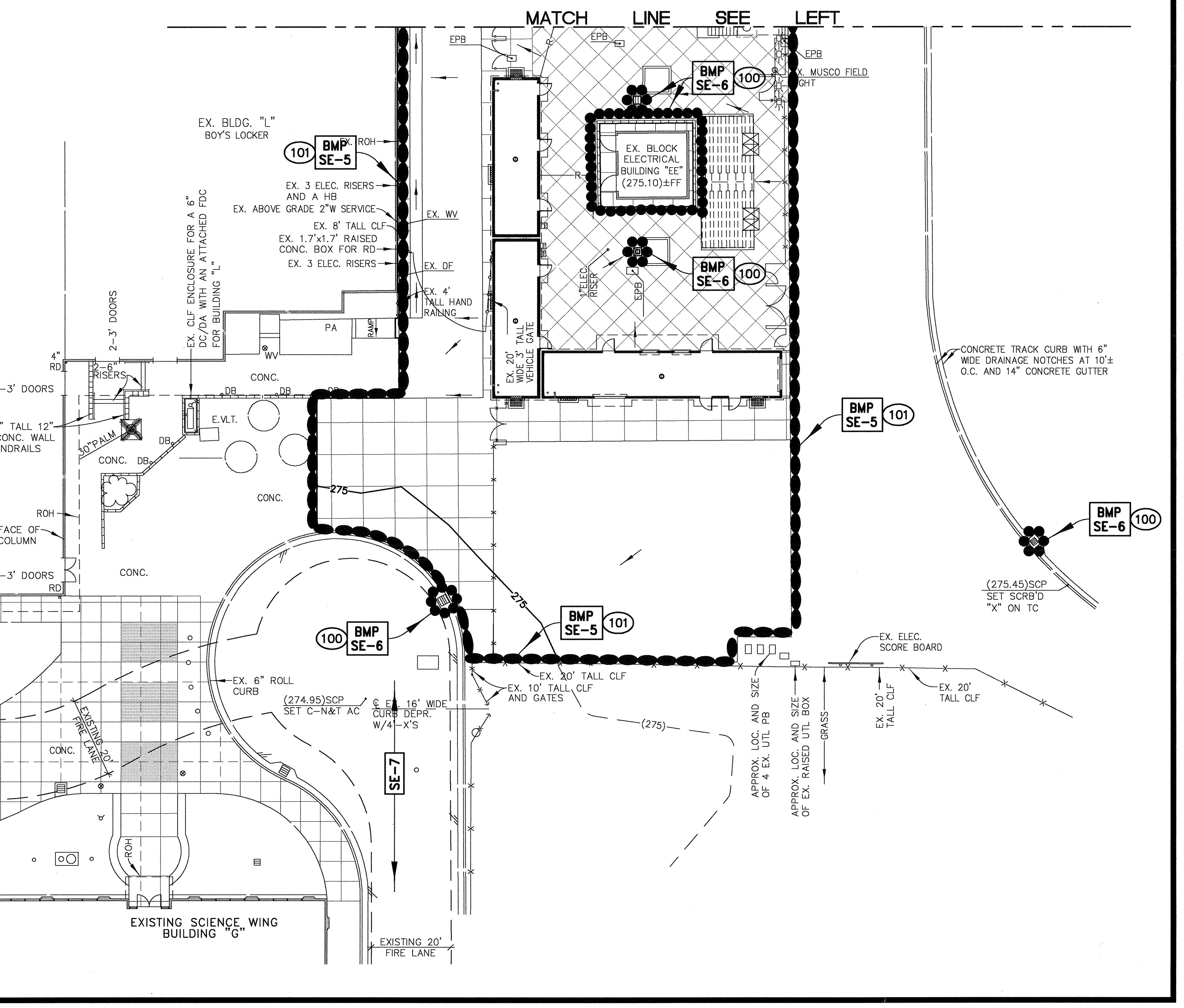
No. 38382


MATCH LINE SEE LEFT
EX. BLDG. "L" BOY'S LOCKER
EX. BLOCK ELECTRICAL BUILDING "EE" (275.10)±FF
EX. 3 ELEC. RISERS AND A HB
EX. ABOVE GRADE 2"W SERVICE
EX. 8' TALL CLF
EX. 1.7'x1.7' RAISED CONC. BOX FOR RD
EX. 3 ELEC. RISERS
EX. 4' TALL HAND RAILING
EX. 2-3' DOORS
EX. 18" TALL 12" WIDE CONC. WALL W/ HANDRAILS
FACE OF COLUMN
EX. 6" ROLL CURB
EX. 20' TALL CLF
EX. 10' TALL CLF AND GATES
EX. ELEC. SCORE BOARD
(274.95)SCP SET C-N&T AC
(275.45)SCP SET SCRB'D "X" ON TC
CONCRETE TRACK CURB WITH 6" WIDE DRAINAGE NOTCHES AT 10's O.C. AND 14" CONCRETE GUTTER
EXISTING SCIENCE WING BUILDING "G"
EXISTING 20' FIRE LANE
SE-7
BMP SE-5 (101)
BMP SE-6 (100)

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
M S L ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: C6
SHEET TITLE:

EROSION CONTROL PLAN

SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C6ecp

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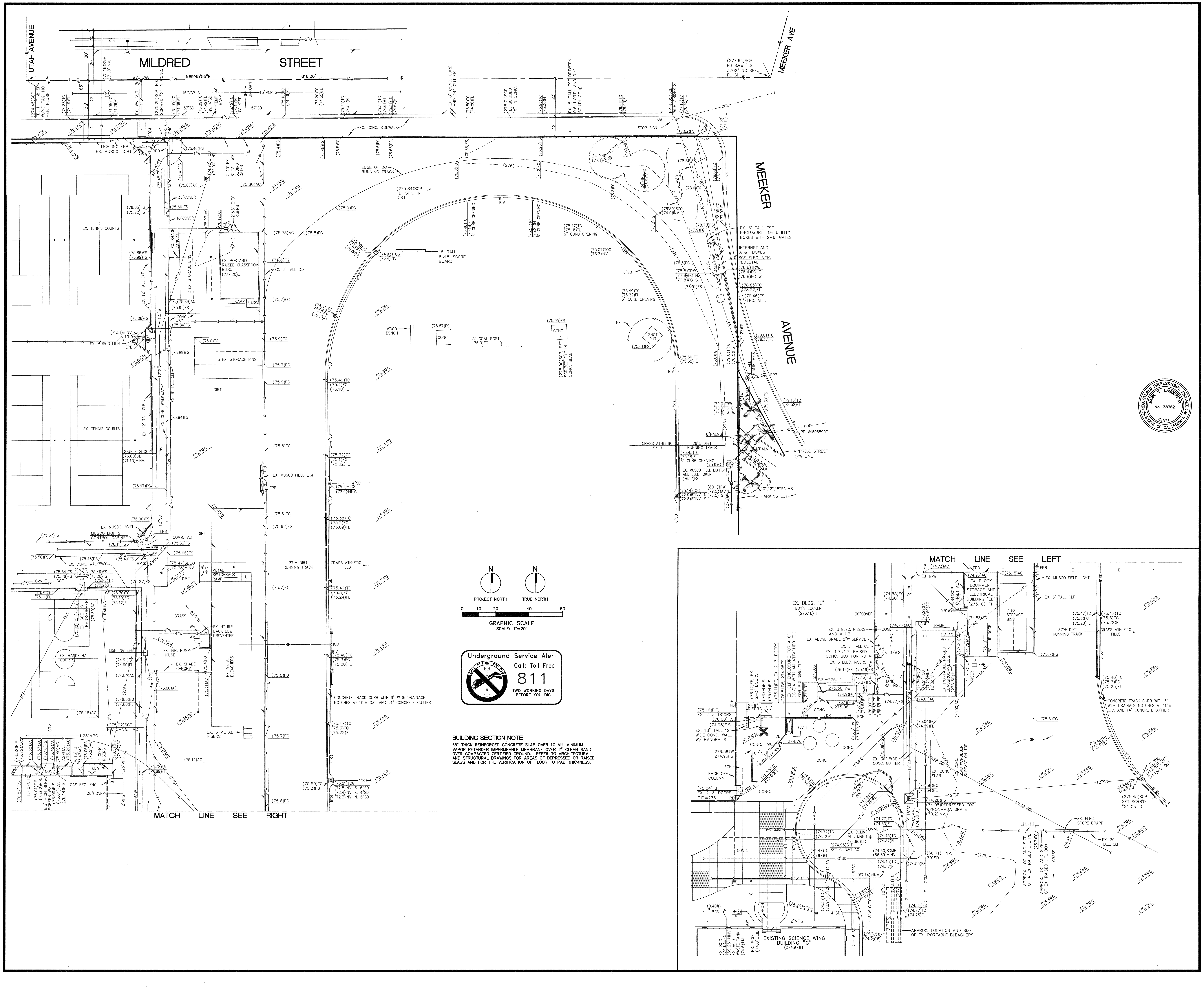

GRAPHIC SCALE
SCALE: 1"=20'

Underground Service Alert
Call: Toll Free
811
TWO WORKING DAYS BEFORE YOU DIG

CALL BEFORE YOU DIG

BUILDING SECTION NOTE

*5" THICK REINFORCED CONCRETE SLAB OVER 10 MIL MINIMUM VAPOR RETARDER IMPERMEABLE MEMBRANE OVER 2" CLEAN SAND OVER COMPACTED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS AND FOR THE VERIFICATION OF FLOOR TO PAD THICKNESS.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

No. 38382

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

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DIVISION OF THE STATE ARCHITECT
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: C7
SHEET TITLE:

PARTIAL SITE TOPOGRAPHY SURVEY MAP

SVA ARCHITECTS

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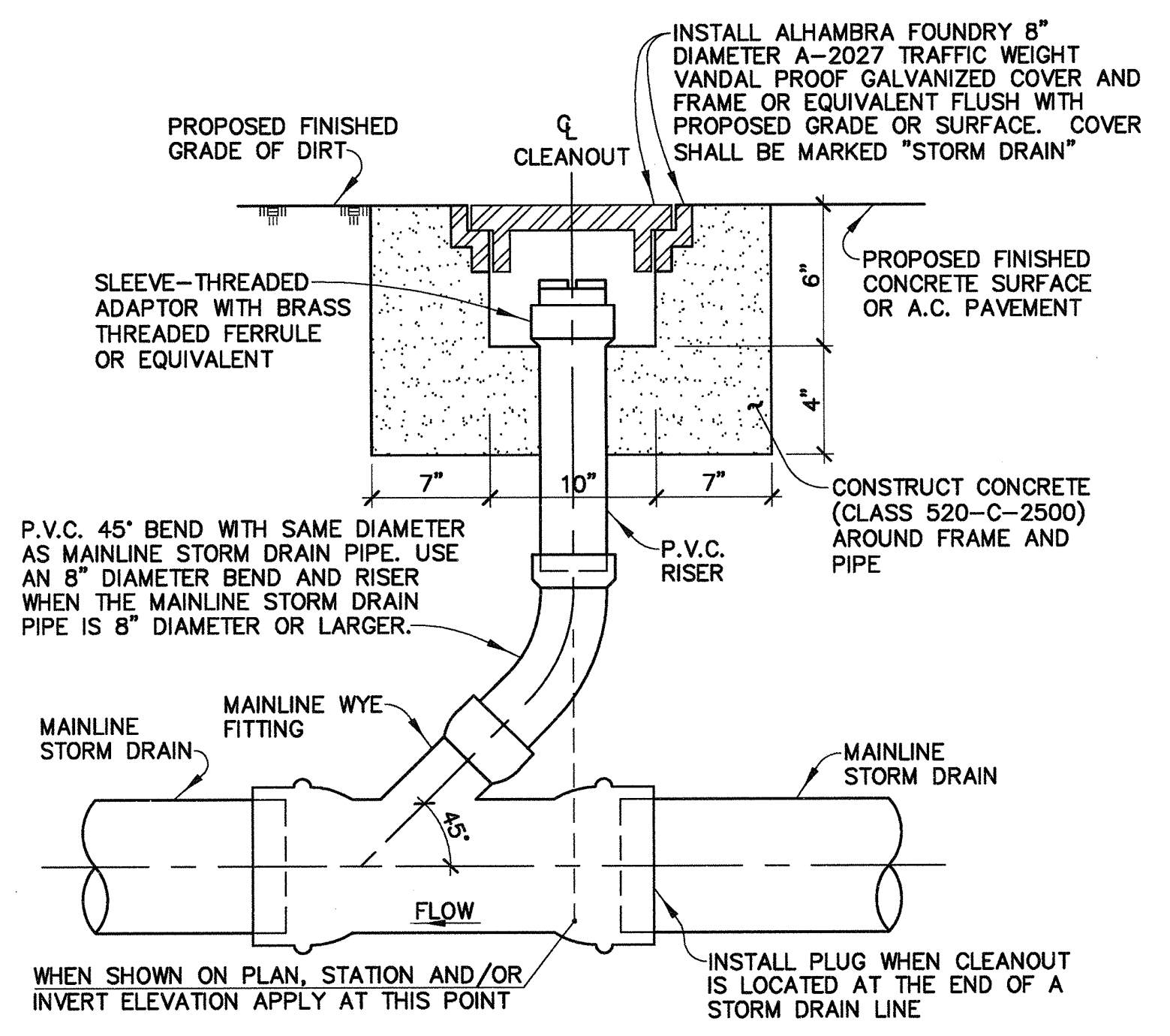
JN 14023-14023 C7tem

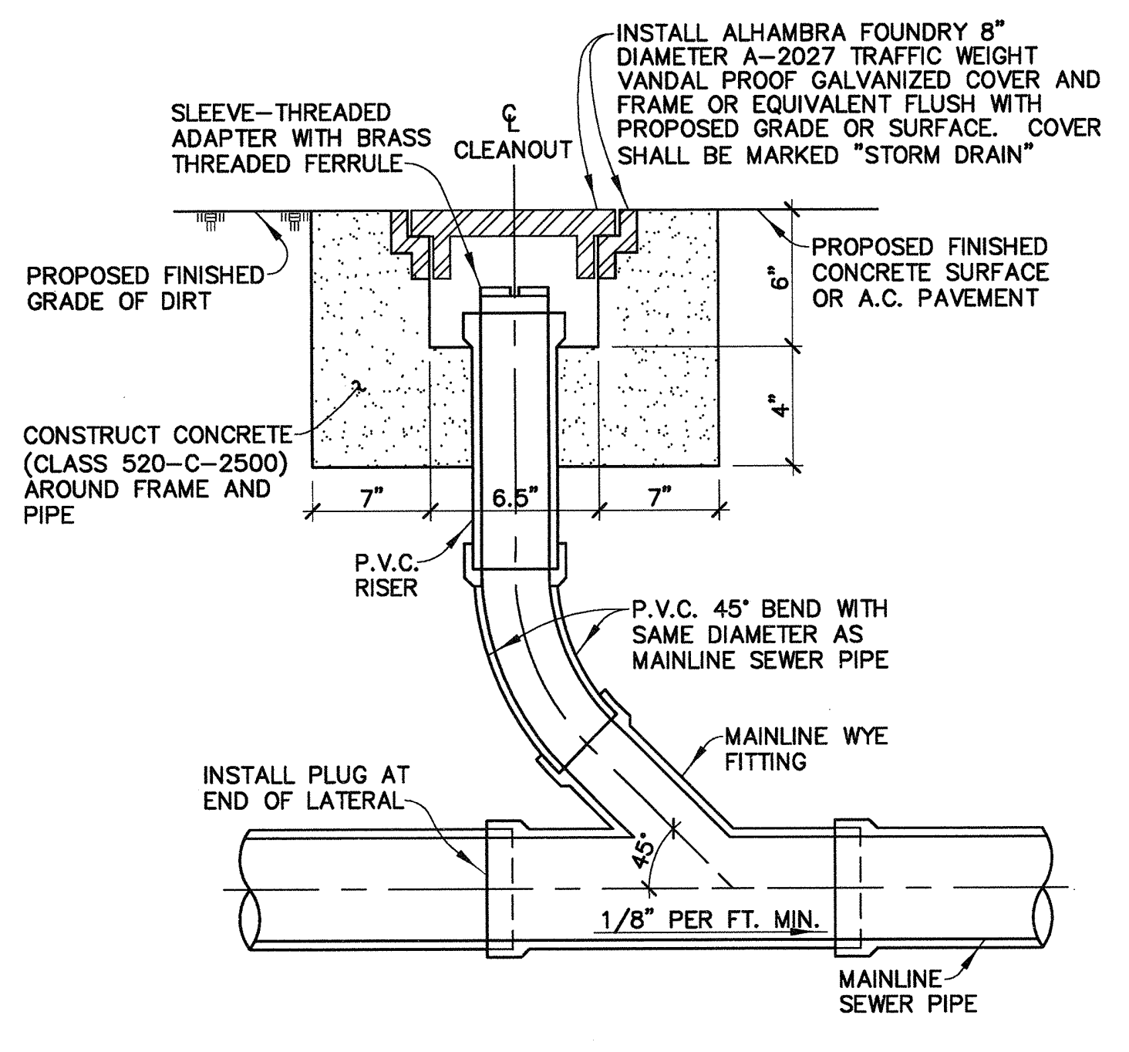
5/6/2016 5:19:19 PM, MSL ENGINEERING, INC. PRINT/PLOT DATE (gb)


INSTALL ALHAMBRA FOUNDRY 8" DIAMETER A-2027 TRAFFIC WEIGHT VANDAL PROOF GALVANIZED COVER AND FRAME OR EQUIVALENT FLUSH WITH PROPOSED GRADE OR SURFACE. COVER SHALL BE MARKED "STORM DRAIN"
PROPOSED FINISHED GRADE OF DIRT
℄ CLEANOUT
SLEEVE-THREADED ADAPTOR WITH BRASS THREADED FERRULE OR EQUIVALENT
PROPOSED FINISHED CONCRETE SURFACE OR A.C. PAVEMENT
6"
4"
7"
10"
7"
CONSTRUCT CONCRETE (CLASS 520-C-2500) AROUND FRAME AND PIPE
P.V.C. 45° BEND WITH SAME DIAMETER AS MAINLINE STORM DRAIN PIPE. USE AN 8" DIAMETER BEND AND RISER WHEN THE MAINLINE STORM DRAIN PIPE IS 8" DIAMETER OR LARGER.
P.V.C. RISER
MAINLINE STORM DRAIN
MAINLINE WYE FITTING
MAINLINE STORM DRAIN
45°
FLOW
WHEN SHOWN ON PLAN, STATION AND/OR INVERT ELEVATION APPLY AT THIS POINT
INSTALL PLUG WHEN CLEANOUT IS LOCATED AT THE END OF A STORM DRAIN LINE

DETAIL "A" (58)

STORM DRAIN CLEANOUT

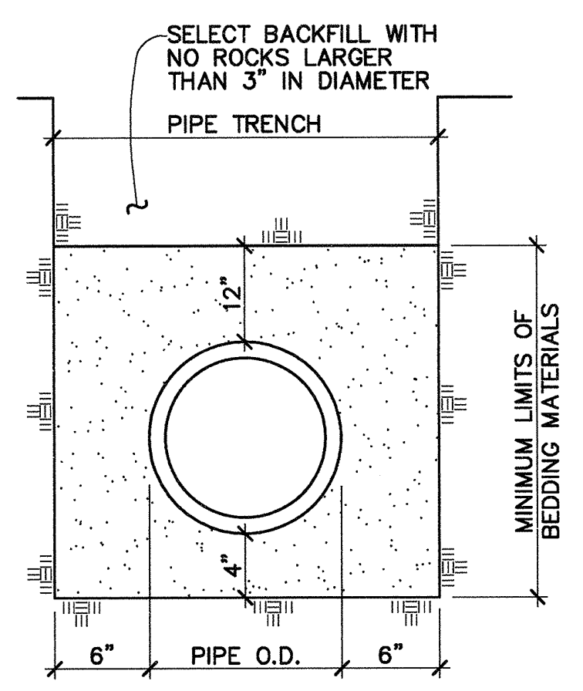
NOT TO SCALE


INSTALL ALHAMBRA FOUNDRY 8" DIAMETER A-2027 TRAFFIC WEIGHT VANDAL PROOF GALVANIZED COVER AND FRAME OR EQUIVALENT FLUSH WITH PROPOSED GRADE OR SURFACE. COVER SHALL BE MARKED "STORM DRAIN"
SLEEVE-THREADED ADAPTER WITH BRASS THREADED FERRULE
℄ CLEANOUT
PROPOSED FINISHED GRADE OF DIRT
PROPOSED FINISHED CONCRETE SURFACE OR A.C. PAVEMENT
6"
4"
CONSTRUCT CONCRETE (CLASS 520-C-2500) AROUND FRAME AND PIPE
7"
6.5"
7"
P.V.C. RISER
P.V.C. 45° BEND WITH SAME DIAMETER AS MAINLINE SEWER PIPE
MAINLINE WYE FITTING
INSTALL PLUG AT END OF LATERAL
45°
1/8" PER FT. MIN.
MAINLINE SEWER PIPE

DETAIL "B" (65)

SANITARY SEWER CLEANOUT

NOT TO SCALE


SELECT BACKFILL WITH NO ROCKS LARGER THAN 3" IN DIAMETER
PIPE TRENCH
12"
4"
MINIMUM LIMITS OF BEDDING MATERIALS
6"
PIPE O.D.
6"

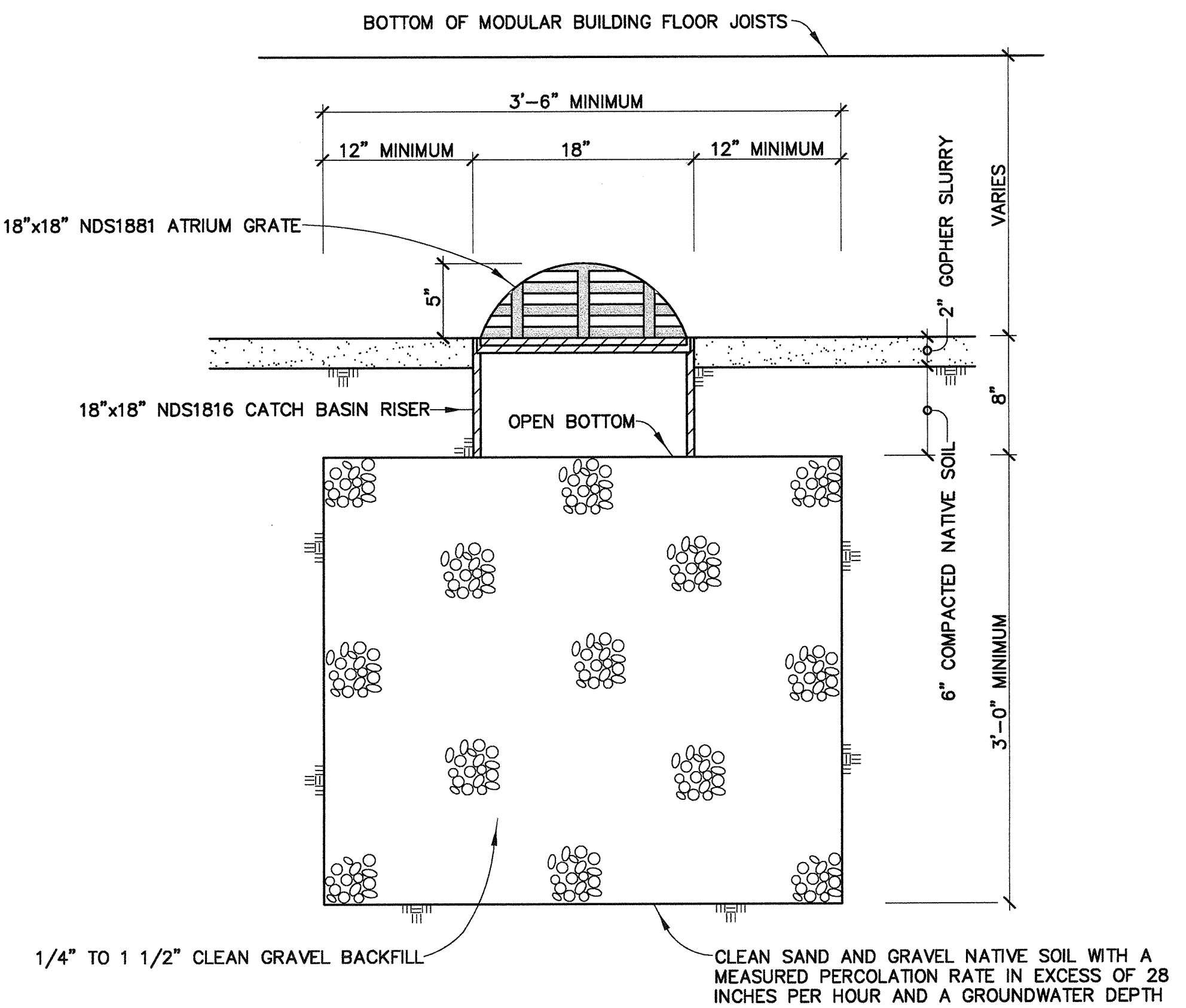
NOTES:

1. (1) FOR TRENCHES DEEPER THAN 4 FEET, FOLLOW GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR SLOPING TRENCH WALLS OR SHORING.
2. (2) BEDDING MATERIAL SHALL CONSIST OF SAND, GRAVEL, CRUSHED AGGREGATE OR NATIVE FREE-DRAINING GRANULAR MATERIAL HAVING A SAND EQUIVALENT NOT LESS THAN 30 AND A MAXIMUM GRAVEL SIZE OF 1/4".
3. (3) NEW FIRE SERVICE LINES SHALL HAVE A MINIMUM COVER OF 30" IN NON-TRAFFIC AREAS AND A MINIMUM COVER OF 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1.
4. (4) ALL EXISTING SURFACES OF PAVING, CURBS, SIDEWALK AND SOFTSCAPE SHALL BE REPAVED OR RESTORED TO A CONDITION WHICH EXISTED PRIOR TO DEMOLITION AS REQUIRED FOR NEW UTILITY CONSTRUCTION.
5. (5) EXISTING SOILS ARE CONSIDERED TO HAVE A MODERATELY CORROSIVE POTENTIAL TO BURIED FERROUS-BASED METAL PIPE. ALL BURIED METAL PIPES SHOULD BE PROTECTED WITH A SAND BEDDING TO PREVENT CONTACT WITH THE ONSITE SOIL.

DETAIL "C"

UTILITY TRENCH DETAIL

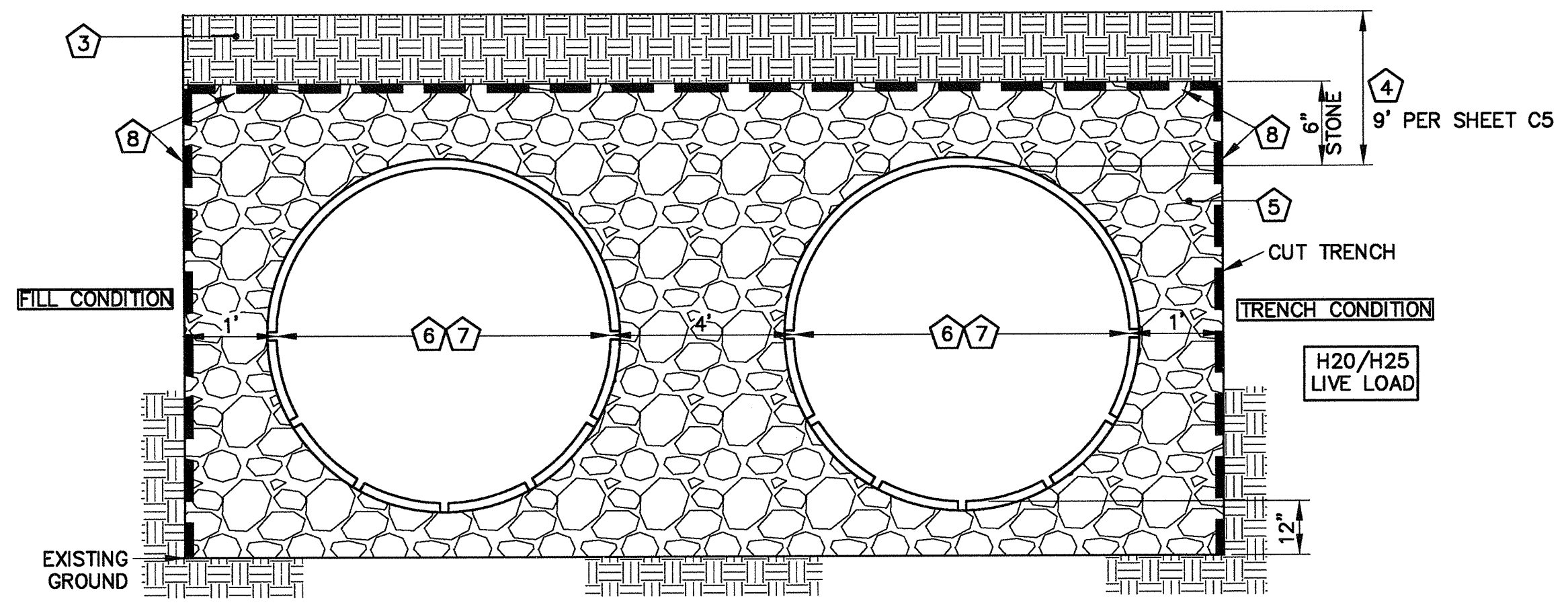
NOT TO SCALE


BOTTOM OF MODULAR BUILDING FLOOR JOISTS
3'-6" MINIMUM
12" MINIMUM
18"
12" MINIMUM
18"x18" NDS1881 ATRIUM GRATE
5"
2" GOPHER SLURRY
VARIES
18"x18" NDS1816 CATCH BASIN RISER
OPEN BOTTOM
8"
6" COMPACTED NATIVE SOIL
3'-0" MINIMUM
1/4" TO 1 1/2" CLEAN GRAVEL BACKFILL
CLEAN SAND AND GRAVEL NATIVE SOIL WITH A MEASURED PERCOLATION RATE IN EXCESS OF 28 INCHES PER HOUR AND A GROUNDWATER DEPTH GREATER THAN 50 FEET.

DETAIL "E"

SMALL DRYWELL DETAIL UNDER MODULAR BUILDING

SCALE: 1"=1'



(3) ATHLETIC FIELD FILL PLACED IN 8" LIFTS AND COMPACTED TO MIN. 90% STANDARD DENSITY PER AASHTO T-99.

(4) 12" MIN. FOR DIAMETERS THROUGH 96", 18" MINIMUM FOR DIAMETERS FROM 102" AND UP MEASURED FROM TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT.

(5) FREE-DRAINING ANGULAR WASHED STONE 3/4" TO 2" AS SHOWN OR SIMILAR TO SPRING LINE.

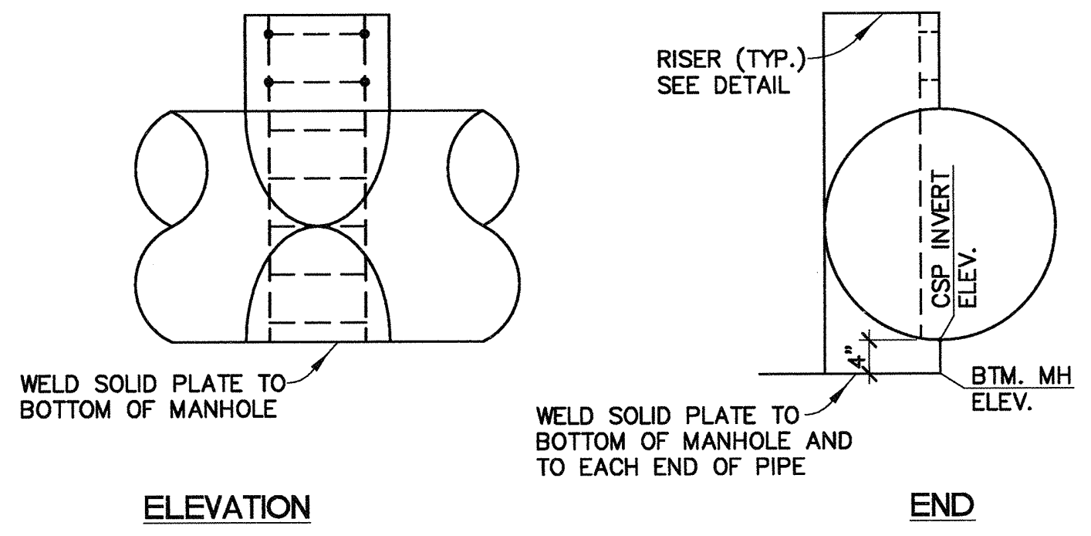
(6) 72" DIAMETER 2-2/3" X 1/2" CSP, GAGE PER AASHTO SECTION 12.

(7) PROVIDE (7) 1/2" DIAMETER PERFORATIONS (HOLES) IN THE BOTTOM HALF OF THE PIPE AT 30 DEGREES APART EVERY 18" ALONG THE LONGITUDINAL LENGTH OF THE PROPOSED 72" DIAMETER PERFORATED CORRUGATED ALUMINIZED TYPE 2 STEEL PIPE FOR CAPTURED STORM WATER RUNOFF TO PERCOLATE INTO THE NATURAL SOIL.

(8) CONTECH C-40 NON-WOVEN GEOTEXTILE , MIRAFI 140NC 45 MIL THICK PERMEABLE FILTER FABRIC OR EQUIVALENT, WRAPPING TRENCH AND 5 SIDES OF STONE BACKFILL LEAVING THE BOTTOM OPEN.

BACKFILL DETAIL

NOT TO SCALE


RISER (TYP.) SEE DETAIL
CSP INVERT ELEV.
4"
BTM. MH ELEV.
WELD SOLID PLATE TO BOTTOM OF MANHOLE
WELD SOLID PLATE TO BOTTOM OF MANHOLE AND TO EACH END OF PIPE
ELEVATION
END

TYPICAL RISER DETAIL

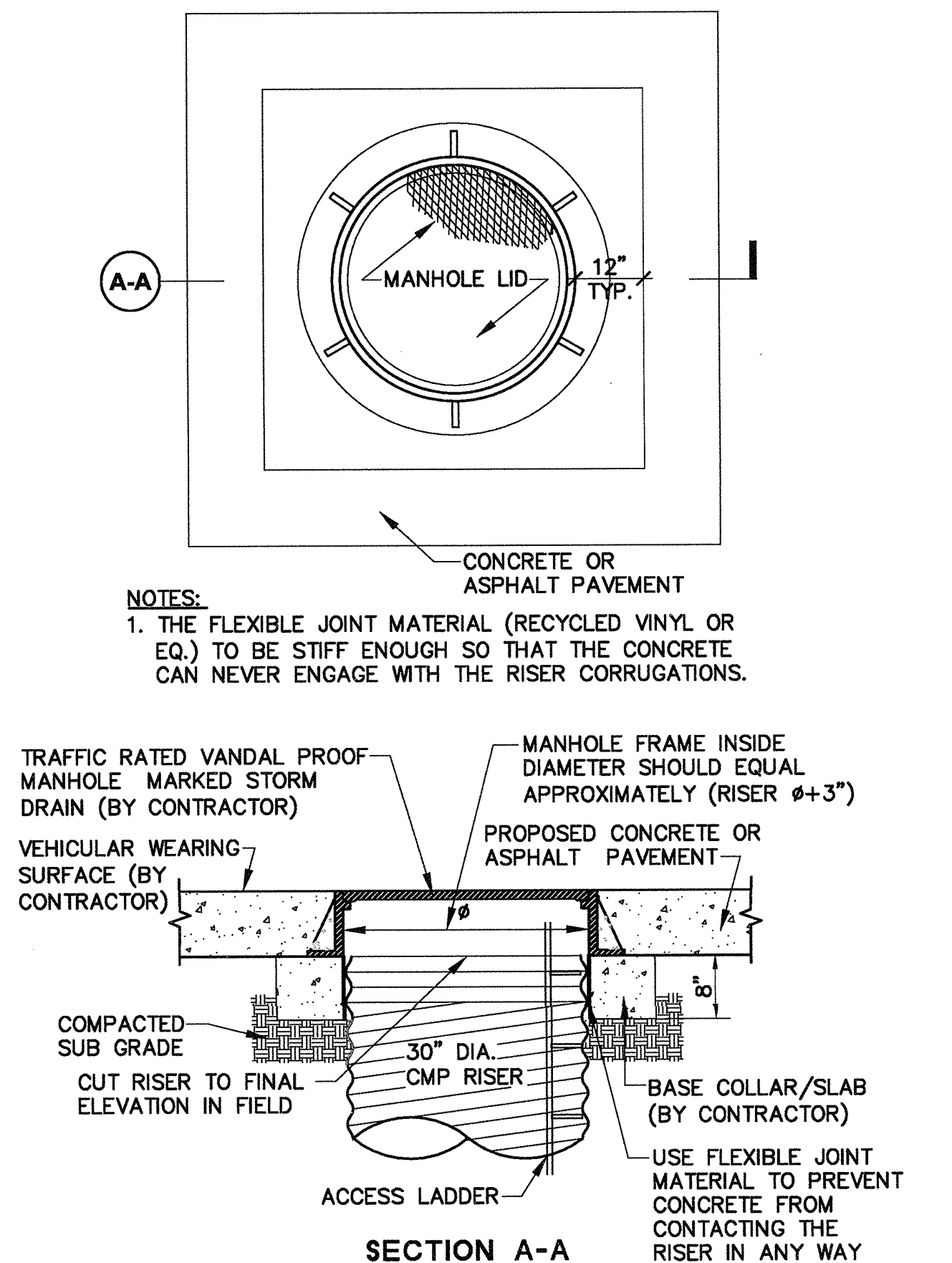
NOT TO SCALE

FABRICATION NOTE

ALL HUGGER BAND JOINT FITTINGS, BARRELS, HEADERS, RISERS, PIPE PERFORATIONS AND OTHER RETENTION SYSTEM RELATED IMPROVEMENTS SHALL BE ORDERED AND FABRICATED OFFSITE TO MINIMIZE INSTALLATION TIME ONSITE. ONSITE FIELD FABRICATION SHALL BE AVOIDED. INSTALLATION SHALL BE PERFORMED PER THE STANDARDS OF THE PIPE SUPPLIER. ACCEPTABLE PIPE SUPPLIERS ARE CONTECH STORMWATER SOLUTIONS AND PACIFIC CORRUGATED PIPE COMPANY.

CONSTRUCTION LOADING NOTE

PROVIDE A 42 INCH MINIMUM TEMPORARY SOIL COVER OVER THE UNDERGROUND RETENTION PIPE BEFORE ANY HEAVY CONSTRUCTION EQUIPMENT IS ALLOWED TO BE OVER THE PIPE.

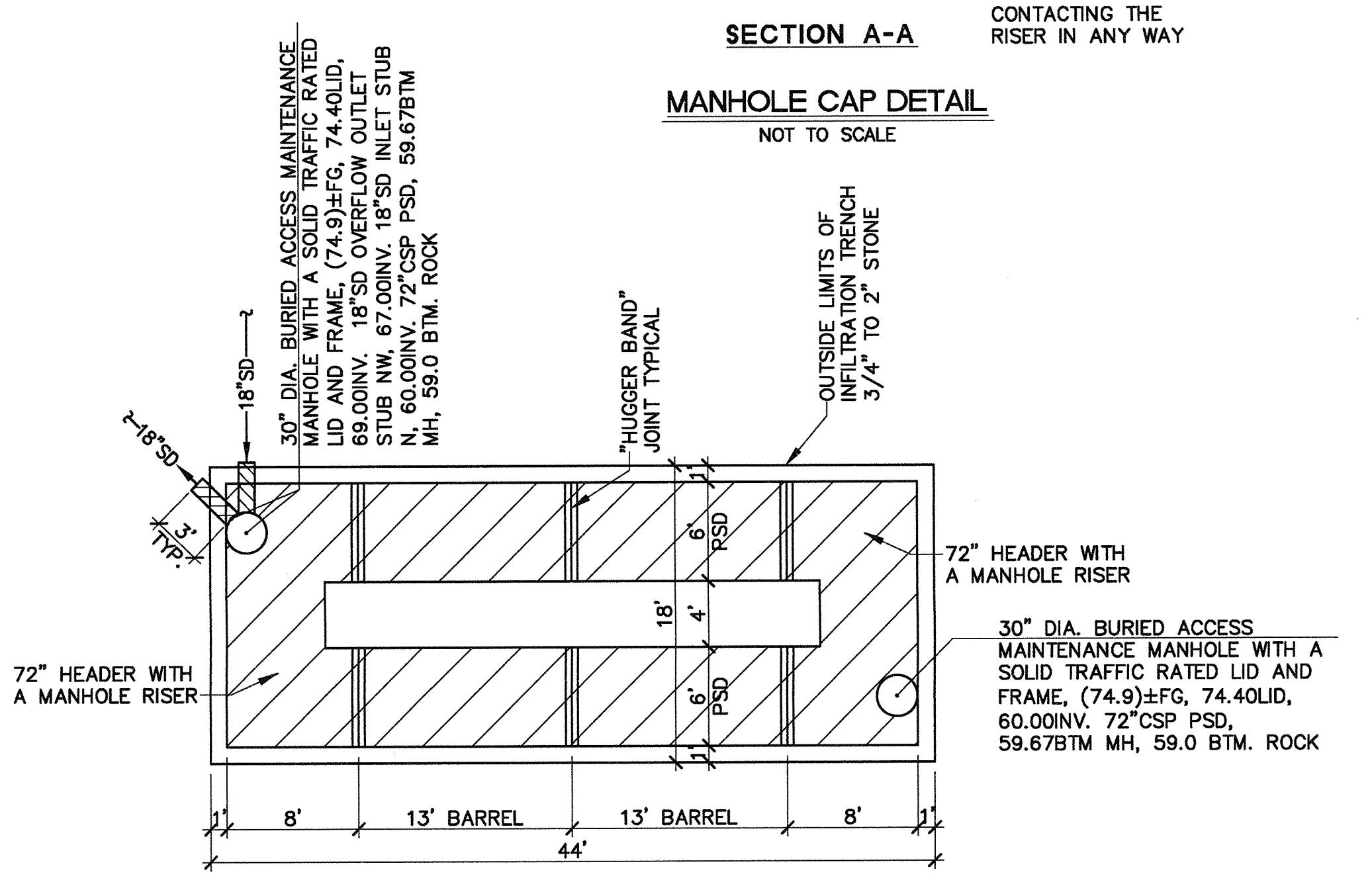

A-A
MANHOLE LID
12" TYP.
CONCRETE OR ASPHALT PAVEMENT
TRAFFIC RATED VANDAL PROOF MANHOLE MARKED STORM DRAIN (BY CONTRACTOR)
MANHOLE FRAME INSIDE DIAMETER SHOULD EQUAL APPROXIMATELY (RISER ø+3")
VEHICULAR WEARING SURFACE (BY CONTRACTOR)
PROPOSED CONCRETE OR ASPHALT PAVEMENT
ø
8"
COMPACTED SUB GRADE
CUT RISER TO FINAL ELEVATION IN FIELD
30" DIA. CMP RISER
BASE COLLAR/SLAB (BY CONTRACTOR)
ACCESS LADDER
USE FLEXIBLE JOINT MATERIAL TO PREVENT CONCRETE FROM CONTACTING THE RISER IN ANY WAY
SECTION A-A

NOTES:

1. THE FLEXIBLE JOINT MATERIAL (RECYCLED VINYL OR EQ.) TO BE STIFF ENOUGH SO THAT THE CONCRETE CAN NEVER ENGAGE WITH THE RISER CORRUGATIONS.

MANHOLE CAP DETAIL

NOT TO SCALE


30" DIA. BURIED ACCESS MAINTENANCE MANHOLE WITH A SOLID TRAFFIC RATED LID AND FRAME, (74.9)±FG, 74.40LID, 69.00INV. 18"SD OVERFLOW OUTLET STUB NW, 67.00INV. 18"SD INLET STUB N, 60.00INV. 72"CSP PSD, 59.67BTM MH, 59.0 BTM. ROCK
18"SD
18"SD
3' TYP.
"HUGGER BAND" JOINT TYPICAL
OUTSIDE LIMITS OF INFILTRATION TRENCH 3/4" TO 2" STONE
1'
6' PSD
18'
4'
6' PSD
1'
72" HEADER WITH A MANHOLE RISER
72" HEADER WITH A MANHOLE RISER
30" DIA. BURIED ACCESS MAINTENANCE MANHOLE WITH A SOLID TRAFFIC RATED LID AND FRAME, (74.9)±FG, 74.40LID, 60.00INV. 72"CSP PSD, 59.67BTM MH, 59.0 BTM. ROCK
1'
8'
13' BARREL
13' BARREL
8'
1'
44'
N

PIPE PLAN VIEW

(REFERENCE: SHEET C5)
SCALE: 1"=10'

CONTECH PIPE GENERAL NOTES

1. ALL RISERS AND STUBS ARE 2-2/3"X1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.

CONTECH FOUNDATION BEDDING PREPARATION NOTE
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSTABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED BY CONTRACTOR. ONCE THE FOUNDATION PREPARATION IS COMPLETE, A MINIMUM OF 4 INCHES OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

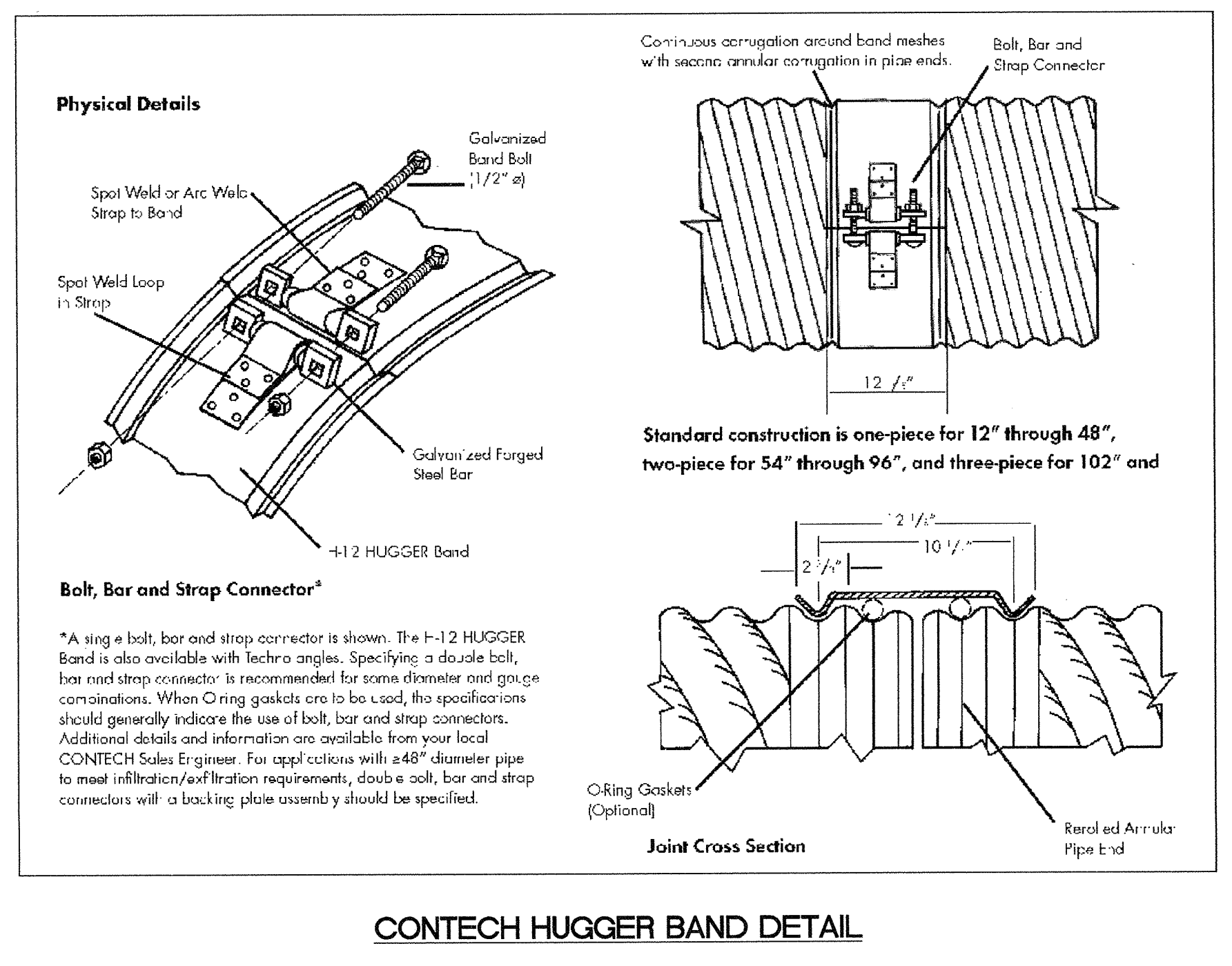
CONTECH BACKFILL NOTE
WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (18") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION AND/OR TREATMENT SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

CONTECH SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL NOTES

1. SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.
2. MATERIAL
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.
3. PIPE
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

   ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.
4. HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA).
5. INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION 8 OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS, THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

   IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDE LINES FOR SAFE PRACTICES.


Physical Details
Galvanized Band Bolt (1/2" ø)
Spot Weld or Arc Weld Strap to Band
Spot Weld Loop in Strap
Galvanized Forged Steel Bar
H-12 HUGGER Band
Bolt, Bar and Strap Connector*
Continuous corrugation around band meshes with second annular corrugation in pipe ends.
Bolt, Bar and Strap Connector
12 ½"
12 ½"
10 ½"
2 ½"
O-Ring Gaskets (Optional)
Rerolled Annular Pipe End
Joint Cross Section

*A single bolt, bar and strap connector is shown. The H-12 HUGGER Band is also available with Techno angles. Specifying a double bolt, bar and strap connector is recommended for some diameter and gauge combinations. When O ring gaskets are to be used, the specifications should generally indicate the use of bolt, bar and strap connectors. Additional details and information are available from your local CONTECH Sales Engineer. For applications with ≥48" diameter pipe to meet infiltration/exfiltration requirements, double bolt, bar and strap connectors with a backing plate assembly should be specified.

Standard construction is one-piece for 12" through 48", two-piece for 54" through 96", and three-piece for 102" and

CONTECH HUGGER BAND DETAIL

DETAIL "D" (55)

PERFORATED UNDERGROUND CORRUGATED STEEL PIPE RETENTION INFILTRATION TRENCH SYSTEM DETAIL

NOT TO SCALE

(REFERENCE – CONTECH STORMWATER SOLUTIONS TYPICAL DETAILS)

HARRINGTON GEOTECHNICAL ENGINEERING, INC. SOIL PERCOLATION TEST RESULTS FROM SEPTEMBER 14, 2015 ADENDUM LETTER

1. SOIL TYPE IS CLEAN SAND AND GRAVEL.
2. MEASURED SOIL PERCOLATION RATE OF AT LEAST 28 INCHES PER HOUR.
3. HISTORIC GROUND WATER DEPTH IN EXCESS OF 50 FEET.

REFER TO SHEET C4 AND C5 FOR THE CONSTRUCTION NOTES SHOWN HEREON IN CIRCLES.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
M S L ENGINEERING, INC.
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SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: **C8**
SHEET TITLE:

DETAIL SHEET

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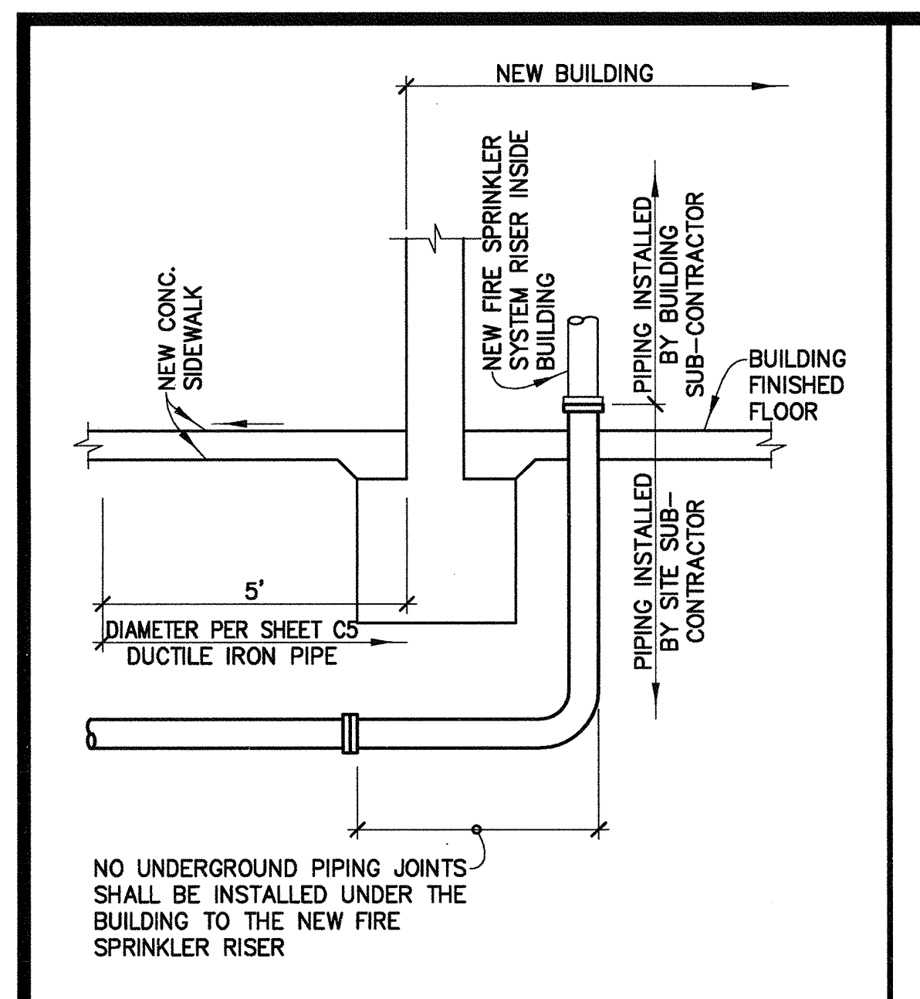
NEW BUILDING
NEW CONC. SIDEWALK
NEW FIRE SPRINKLER SYSTEM RISER INSIDE BUILDING
PIPING INSTALLED BY BUILDING SUB-CONTRACTOR
BUILDING FINISHED FLOOR
PIPING INSTALLED BY SITE SUB-CONTRACTOR
5'
DIAMETER PER SHEET C5
DUCTILE IRON PIPE
NO UNDERGROUND PIPING JOINTS SHALL BE INSTALLED UNDER THE BUILDING TO THE NEW FIRE SPRINKLER RISER

DETAIL "A" ⑦④

FIRE SPRINKLER RISER DETAIL
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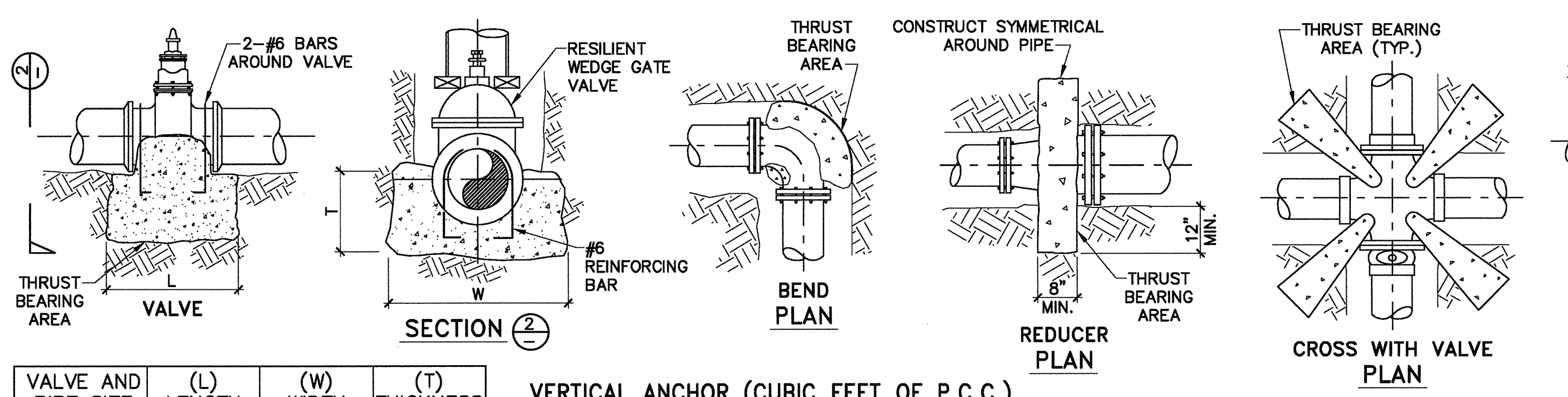
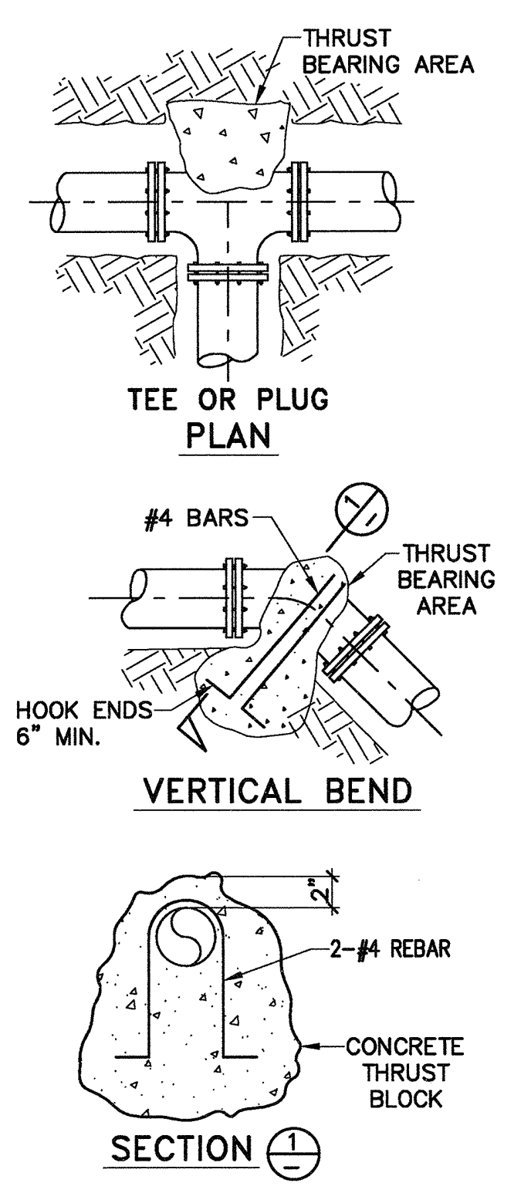




VALVE AND PIPE SIZE	(L) LENGTH	(W) WIDTH	(T) THICKNESS
4" OR 6"	2'	2'-0"	12"
8"	3'	2'-2"	14"
10"	3'	2'-4"	14"
12"	4'	2'-6"	15"

NOTES:

1. THRUST BLOCKS MUST BEAR ON UNDISTURBED SOIL.
2. CONCRETE FOR THRUST AND ANCHOR BLOCKS SHALL BE OF CLASS 480-C-2000 IN ACCORDANCE WITH S.S.P.W.C. IT SHALL BE POURED (12" THICK MIN.) AGAINST UNDISTURBED SOIL. P.C.C. SHALL BE KEPT CLEAR OF JOINTS AND BOLTS.
3. WHEN BOLTED JOINTS ARE UTILIZED, SET FORMS TO SEPARATE BOLTS FROM P.C.C. TO ASSURE ACCESS TO BOLTS AND JOINTS.
4. THRUST BLOCKS WILL BE INSPECTED BY CITY OF EL MONTE INSPECTOR.

VERTICAL ANCHOR (CUBIC FEET OF P.C.C.)

PIPE SIZE		4" OR 6"	8"	10"	12"
TEST PRESSURE (PSI)		150	150	150	150
BENDS	90°	62	111	173	249
	45°	44	78	122	176
	22.5°	24	42	66	95
	11.25°	12	22	34	49

TABLE(S) BASED ON SOIL BEARING VALUE OF 1500 lb. PER SQUARE FOOT.

CALCULATIONS MUST BE SUBMITTED FOR OTHER SOIL BEARING VALUES OR OTHER TEST PRESSURE IN WATER MAIN.

THRUST BEARING AREA (SQUARE FEET)

PIPE SIZE		4" OR 6"	8"	10"	12"
TEST PRESSURE (PSI)		150	150	150	150
BENDS	90°	4.0	7.1	11.1	16.0
	45°	2.2	3.8	6.0	8.7
	22.5°	2.0	2.0	3.1	4.4
	11.25°	2.0	2.0	2.0	2.2
PLUG		5.7	10.1	15.7	22.6
TEE/VALVE		2.8	5.0	7.9	11.3
CROSS✱		2.8	5.0	7.9	11.3
REDUCER		2.0	4.0	7.0	10.0

✱WITH A VALVE

DETAIL "B"

THRUST BLOCK DETAIL
NOT TO SCALE
(REFERENCE CITY DWG. No. W-14)

DSA FIRE LINE SAFETY WATER FLOW DATA FOR FIRE SPRINKLER SYSTEMS NOTES

1. WATER FLOW DATA MUST BE SUBMITTED WITH THE ORIGINAL BUILDING PLANS, AND MUST NOT BE OLDER THAN THREE MONTHS.
2. THE ORIGINAL WATER FLOW DATA WILL HELP TO IDENTIFY IF ADEQUATE GPM/PSI IS AVAILABLE, AND HELP TO DETERMINE IF OTHER SOURCES OF WATER OR EQUIPMENT WILL BE REQUIRED OR ACCEPTABLE, IE: WATER TANKS, FIRE PUMPS, ETC. ADDITIONALLY, THIS DATA CAN BE USED TO APPROVE OR REJECT PLANS, FOR EXAMPLE THOSE THAT USE A SPRINKLER SYSTEM IN LIEU OF ONE-HOUR CONSTRUCTION OR TAKE THE SPRINKLER INCREASE. IF THE WATER GPS/PSI IS NOT AVAILABLE THEN ADDITIONAL MEASURES MUST BE PROVIDED OR THE BUILDING MUST BE CONSTRUCTED WITH ONE-HOUR CONSTRUCTION, REDUCE THE SIZE, ETC.
3. IF THE SPRINKLER PLANS ARE TO BE SUBMITTED AS A "DEFERRED SUBMITTAL" THEN THE WATER FLOW DATA MUST BE ALSO BE SUBMITTED WITH THE SPRINKLER PLANS AND BE NO OLDER THAN 6 MONTHS, REGARDLESS OF WHEN THE ORIGINAL BUILDING PLANS AND WATER FLOW DATA WERE SUBMITTED. A COPY OF THE ORIGINAL TEST DATA MAY BE USED IF THE TEST DATA IS LESS THAN 6 MONTHS OLD.
4. EXAMPLE: THE BUILDING PLANS ARE SUBMITTED WITH WATER FLOW DATA THAT IS TWO (2) MONTHS OLD. THIS MEETS THE TIME FRAME AND IS ACCEPTABLE. THE DEFERRED SUBMITTAL OF THE SPRINKLER PLANS IS SUBMITTED NINE (9) MONTHS LATER. AN ADDITIONAL TEST WOULD BE REQUIRED AND THE WATER FLOW DATA FROM THAT TEST WOULD BE INCLUDED WITH THE DEFERRED SUBMITTAL SINCE THE TOTAL TIME FROM THE LAST TEST EXCEEDS THE SIX MONTH TIME FRAME.
5. ALL WATER FLOW DATA (TESTS) MUST BE CONDUCTED OR WITNESSED AND "WET" SIGNED BY THE LOCAL WATER PURVEYOR OR THE LOCAL FIRE AUTHORITY HAVING JURISDICTION.

ALL INFORMATION MUST BE LEGIBLE AND DATES MUST BE SHOWN.

DSA FIRE LINE SAFETY UNDERGROUND FIRE SERVICE NOTES

NFPA 24, SEC. 7-2: ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD-COATED AND WRAPPED AFTER ASSEMBLY, FOR BURIED PIPE, GALVANIZING, INTERNALLY OR EXTERNALLY, DOES NOT MEET REQUIREMENTS OF THIS SECTION.

NFPA 24, SEC. 8-5.2: ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION-RETARDING MATERIAL AFTER INSULATION.

NFPA 24, SEC. 8-6.2.2: AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH BITUMINOUS OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL.

NFPA 24, SEC. 8-6.2: THRUST BLOCKS SHALL BE A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE-HALF PARTS SAND, AND FIVE PARTS STONE. THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THE THRUST TO BE ENCOUNTERED. IN GENERAL, THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.

NFPA 24, SEC. 8-2.1: UNDERGROUND MAINS SHALL BE COMPLETELY FLUSHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF THE INSTALLATION PER TABLE 9-1.1 TO PRODUCE A VELOCITY OF 10 FEET PER SECOND IN PIPES (WITNESSED BY THE INSPECTOR OF RECORD). LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING SO THEY MAY OBSERVE THE TESTING WHEN DESIRED.

NFPA 24, SEC. 8-9.3.1: ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200-PSI PRESSURE FOR A MINIMUM OF TWO HOURS (WITNESSED BY THE INSPECTOR OF RECORD). LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING AND SHALL OBSERVE AND/OR ASSIST IOR WHEN POSSIBLE.

THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURED AT THE SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED TWO-QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVEGROUND PIPING (ALSO SEE SEC. 9-2.3.3).

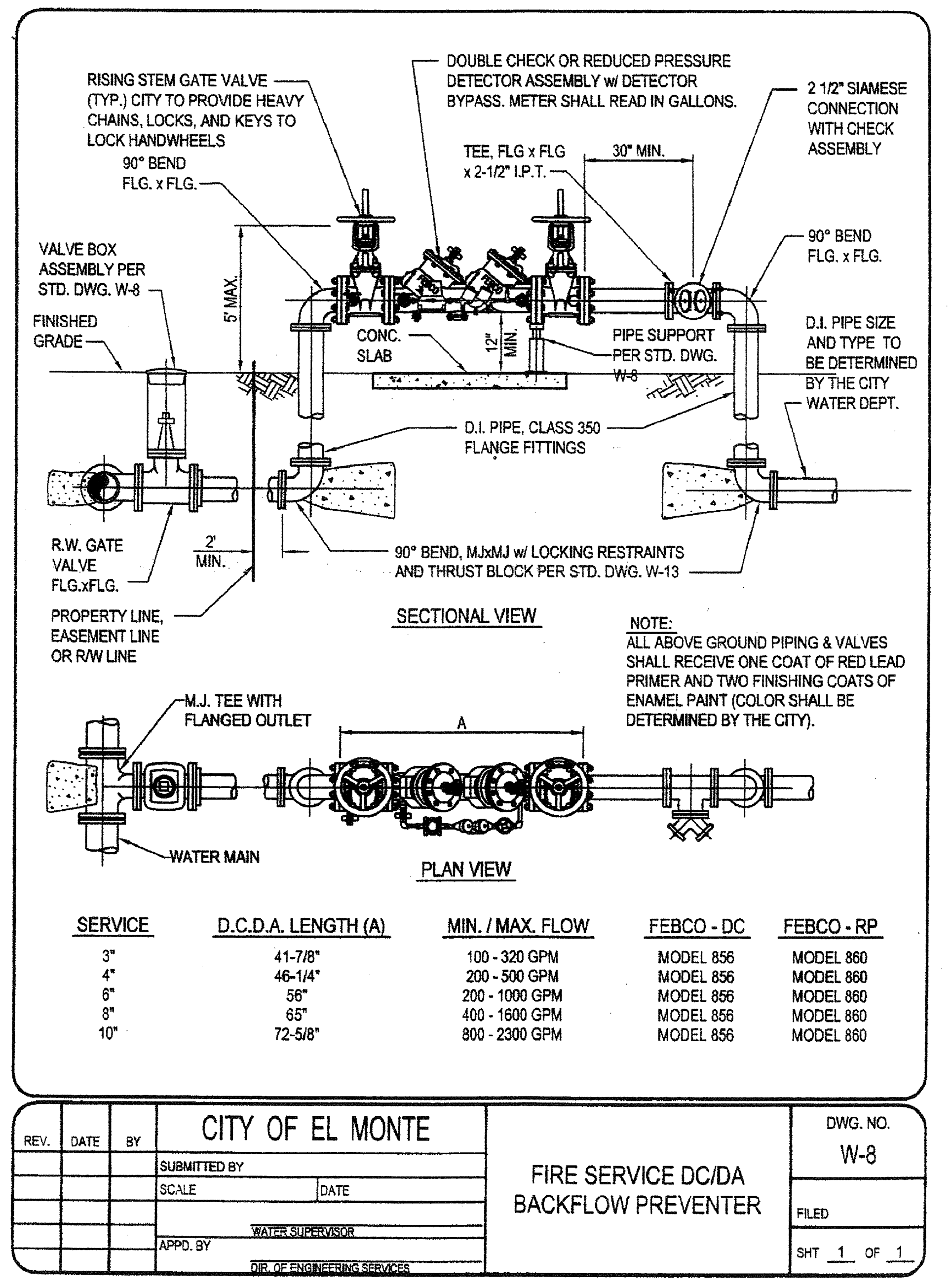
HYDROSTATIC TESTS SHALL BE MADE BEFORE THE JOINTS ARE COVERED SO THAT ANY LEAKS MAY BE READILY DETECTED.

NFPA 24, SEC. 9-2.1: BEFORE ASKING FINAL APPROVAL OF AN INSTALLATION BY THE IOR, RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND TESTED AND MATERIAL AND TEST CERTIFICATE SUBMITTED TO THE IOR. A TYPICAL CERTIFICATE IS SHOWN IN FIGURE A-9-2.1. THIS FORM SHALL BE GIVEN TO THE IOR.

NFPA 24, SEC. 8-1: THE DEPTH OF COVERAGE OVER WATER PIPE SHALL NOT BE LESS THAN 2.5 FEET TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3 FEET UNDER DRIVEWAYS.

THE METHOD USED FOR UNDERGROUND FIRE-LINES WHEN ENTERING BUILDINGS UNDER CONCRETE FOOTINGS SHALL HAVE THE STRUCTURAL ENGINEER OF RECORD APPROVAL. NFPA 24 SEC. 7-5.2.5/NFPA 13 SEC. 4-14.4.3.4.1 REQUIRES A CLEARANCE BY A PIPE SLEEVE WITH A NOMINAL DIAMETER 4 INCH LARGER THAN THE NOMINAL DIAMETERS OF THE SUPPLY PIPING 4 INCH NOMINAL AND LARGER. (IE: FIRE-LINES NOMINAL 6 INCH REQUIRES 10 INCH SLEEVE).

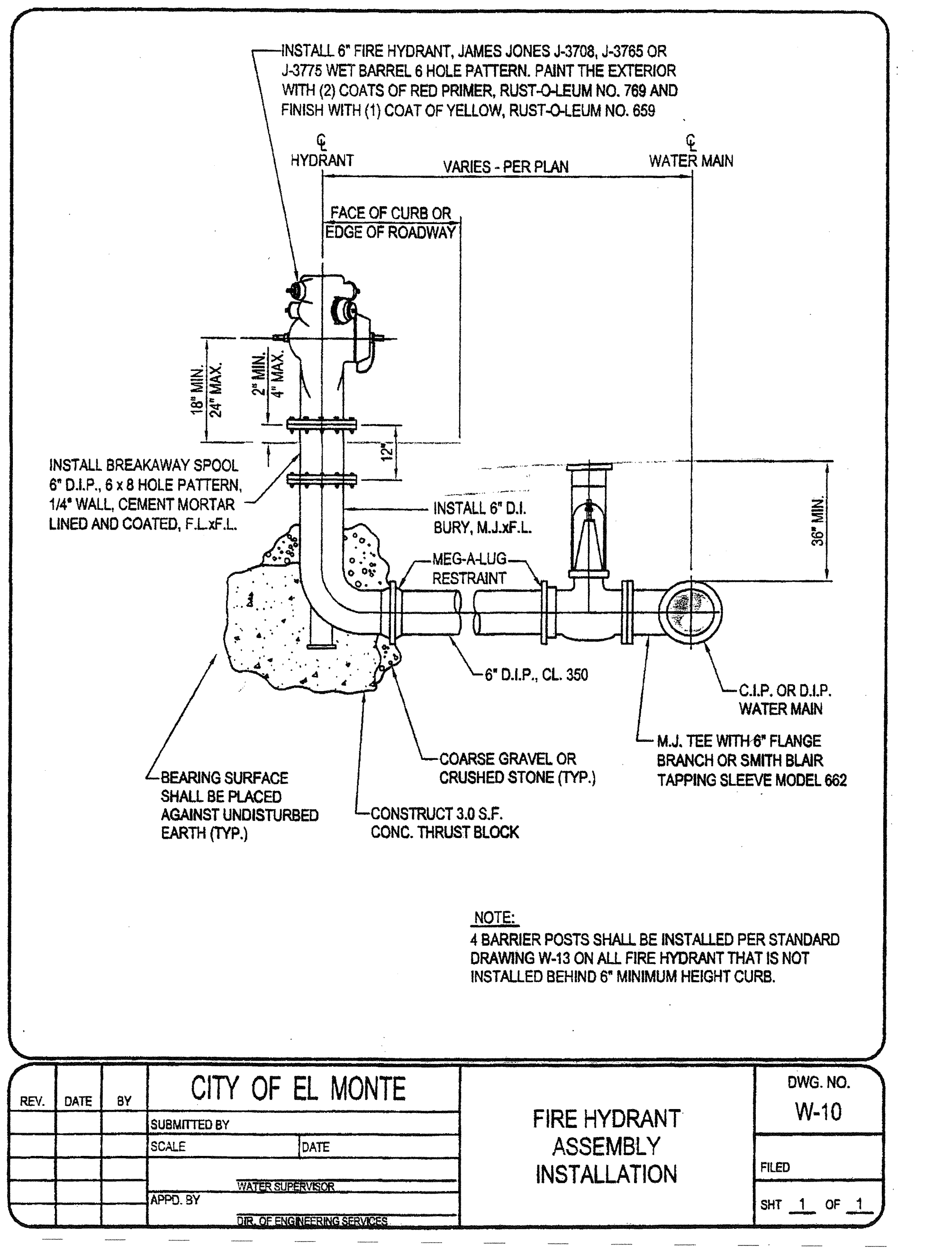
CPC SEC. 604.1: PVC PIPING MAY BE INSTALLED TO 5 FEET OUTSIDE THE FOUNDATION OF ANY BUILDING OR STRUCTURE OR PARTS THEREOF. IT SHALL BE BURIED IN THE GROUND FOR ITS ENTIRE LENGTH. IT SHALL NOT BE INSTALLED WITHIN OR UNDER ANY BUILDING OR STRUCTURE. DUCTILE PIPE SHALL BE INSTALLED WITHIN 5 FEET OR BUILDING.


RISING STEM GATE VALVE (TYP.) CITY TO PROVIDE HEAVY CHAINS, LOCKS, AND KEYS TO LOCK HANDWHEELS
90° BEND FLG. x FLG.
DOUBLE CHECK OR REDUCED PRESSURE DETECTOR ASSEMBLY w/ DETECTOR BYPASS. METER SHALL READ IN GALLONS.
TEE, FLG x FLG x 2-1/2" I.P.T.
30" MIN.
2 1/2" SIAMESE CONNECTION WITH CHECK ASSEMBLY
90° BEND FLG. x FLG.
VALVE BOX ASSEMBLY PER STD. DWG. W-8
FINISHED GRADE
5' MAX.
CONC. SLAB
12" MIN.
PIPE SUPPORT PER STD. DWG. W-8
D.I. PIPE SIZE AND TYPE TO BE DETERMINED BY THE CITY WATER DEPT.
D.I. PIPE, CLASS 350 FLANGE FITTINGS
R.W. GATE VALVE FLG.xFLG.
2' MIN.
90° BEND, MJxMJ w/ LOCKING RESTRAINTS AND THRUST BLOCK PER STD. DWG. W-13
PROPERTY LINE, EASEMENT LINE OR R/W LINE
SECTIONAL VIEW
M.J. TEE WITH FLANGED OUTLET
A
WATER MAIN
PLAN VIEW
REV.
DATE
BY
CITY OF EL MONTE
SUBMITTED BY
SCALE
DATE
WATER SUPERVISOR
APPD. BY
DIR. OF ENGINEERING SERVICES
DWG. NO.
W-8
FILED
SHT 1 OF 1

NOTE:
ALL ABOVE GROUND PIPING & VALVES SHALL RECEIVE ONE COAT OF RED LEAD PRIMER AND TWO FINISHING COATS OF ENAMEL PAINT (COLOR SHALL BE DETERMINED BY THE CITY).

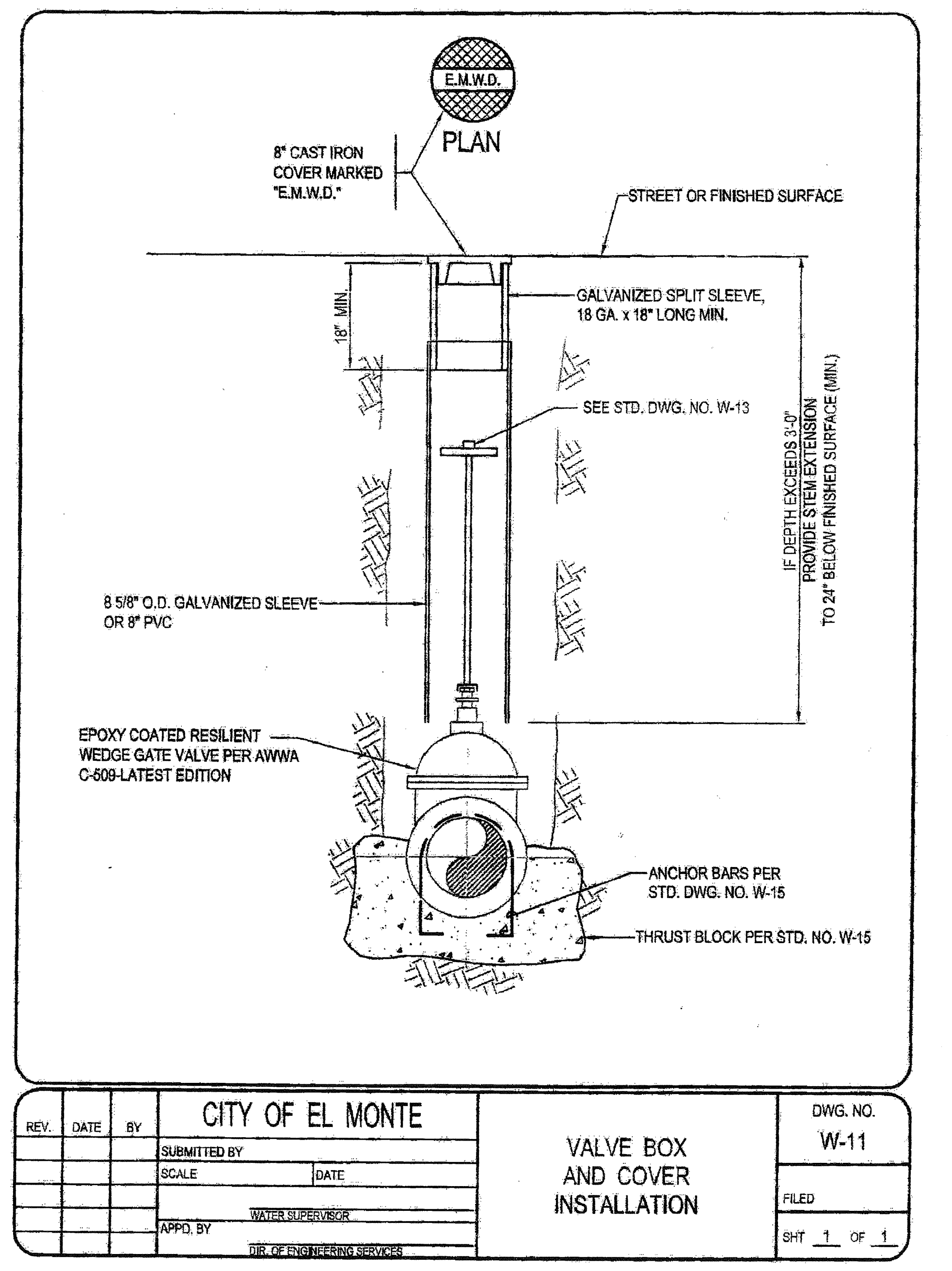
SERVICE	D.C.D.A. LENGTH (A)	MIN. / MAX. FLOW	FEBCO - DC	FEBCO - RP
3"	41-7/8"	100 - 320 GPM	MODEL 856	MODEL 860
4"	46-1/4"	200 - 500 GPM	MODEL 856	MODEL 860
6"	56"	200 - 1000 GPM	MODEL 856	MODEL 860
8"	65"	400 - 1600 GPM	MODEL 856	MODEL 860
10"	72-5/8"	800 - 2300 GPM	MODEL 856	MODEL 860

FIRE SERVICE DC/DA BACKFLOW PREVENTER

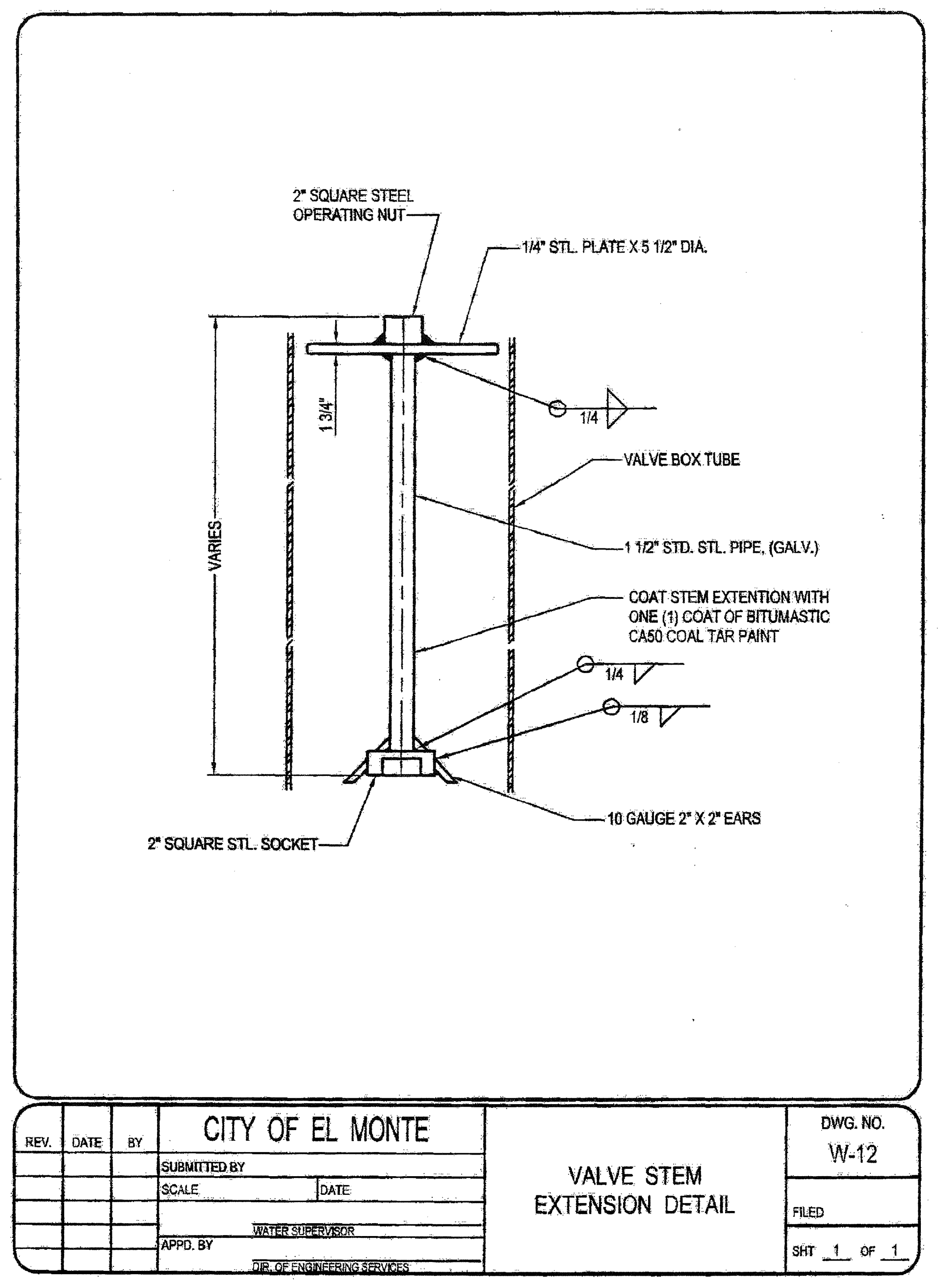

INSTALL 6" FIRE HYDRANT, JAMES JONES J-3708, J-3765 OR J-3775 WET BARREL 6 HOLE PATTERN. PAINT THE EXTERIOR WITH (2) COATS OF RED PRIMER, RUST-O-LEUM NO. 769 AND FINISH WITH (1) COAT OF YELLOW, RUST-O-LEUM NO. 659
℄ HYDRANT
VARIES - PER PLAN
℄ WATER MAIN
FACE OF CURB OR EDGE OF ROADWAY
18" MIN. 24" MAX.
2" MIN. 4" MAX.
12"
INSTALL BREAKAWAY SPOOL 6" D.I.P., 6 x 8 HOLE PATTERN, 1/4" WALL, CEMENT MORTAR LINED AND COATED, F.L.xF.L.
INSTALL 6" D.I. BURY, M.J.xF.L.
MEG-A-LUG RESTRAINT
36" MIN.
6" D.I.P., CL. 350
C.I.P. OR D.I.P. WATER MAIN
M.J. TEE WITH 6" FLANGE BRANCH OR SMITH BLAIR TAPPING SLEEVE MODEL 662
COARSE GRAVEL OR CRUSHED STONE (TYP.)
BEARING SURFACE SHALL BE PLACED AGAINST UNDISTURBED EARTH (TYP.)
CONSTRUCT 3.0 S.F. CONC. THRUST BLOCK
REV.
DATE
BY
CITY OF EL MONTE
SUBMITTED BY
SCALE
DATE
WATER SUPERVISOR
APPD. BY
DIR. OF ENGINEERING SERVICES
DWG. NO.
W-10
FILED
SHT 1 OF 1

NOTE:
4 BARRIER POSTS SHALL BE INSTALLED PER STANDARD DRAWING W-13 ON ALL FIRE HYDRANT THAT IS NOT INSTALLED BEHIND 6" MINIMUM HEIGHT CURB.

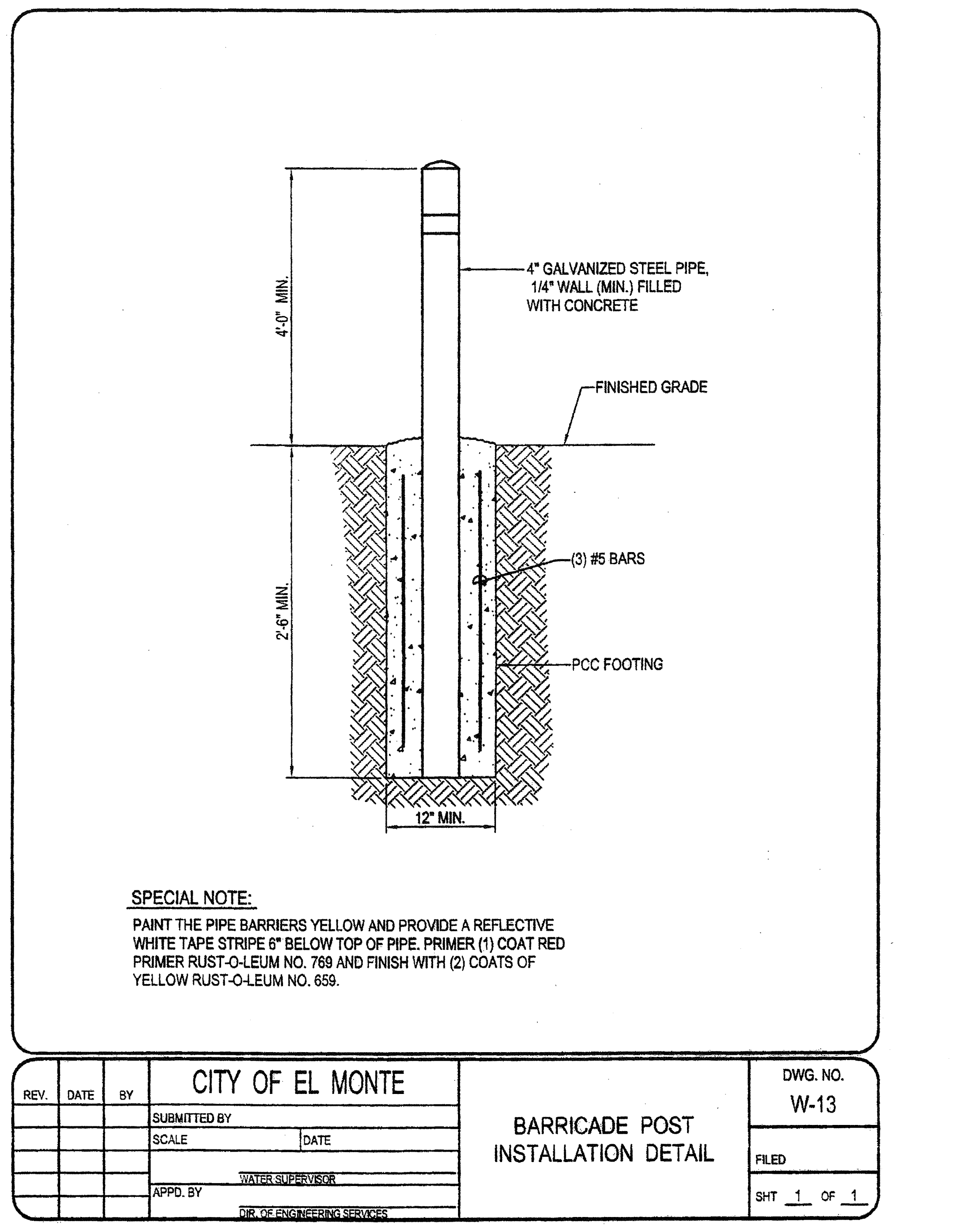
FIRE HYDRANT ASSEMBLY INSTALLATION


E.M.W.D.
PLAN
8" CAST IRON COVER MARKED "E.M.W.D."
STREET OR FINISHED SURFACE
18" MIN.
GALVANIZED SPLIT SLEEVE, 18 GA. x 18" LONG MIN.
SEE STD. DWG. NO. W-13
IF DEPTH EXCEEDS 3'-0" PROVIDE STEM EXTENSION TO 24" BELOW FINISHED SURFACE (MIN.)
8 5/8" O.D. GALVANIZED SLEEVE OR 8" PVC
EPOXY COATED RESILIENT WEDGE GATE VALVE PER AWWA C-509-LATEST EDITION
ANCHOR BARS PER STD. DWG. NO. W-15
THRUST BLOCK PER STD. NO. W-15
REV.
DATE
BY
CITY OF EL MONTE
SUBMITTED BY
SCALE
DATE
WATER SUPERVISOR
APPD. BY
DIR. OF ENGINEERING SERVICES
DWG. NO.
W-11
FILED
SHT 1 OF 1

VALVE BOX AND COVER INSTALLATION

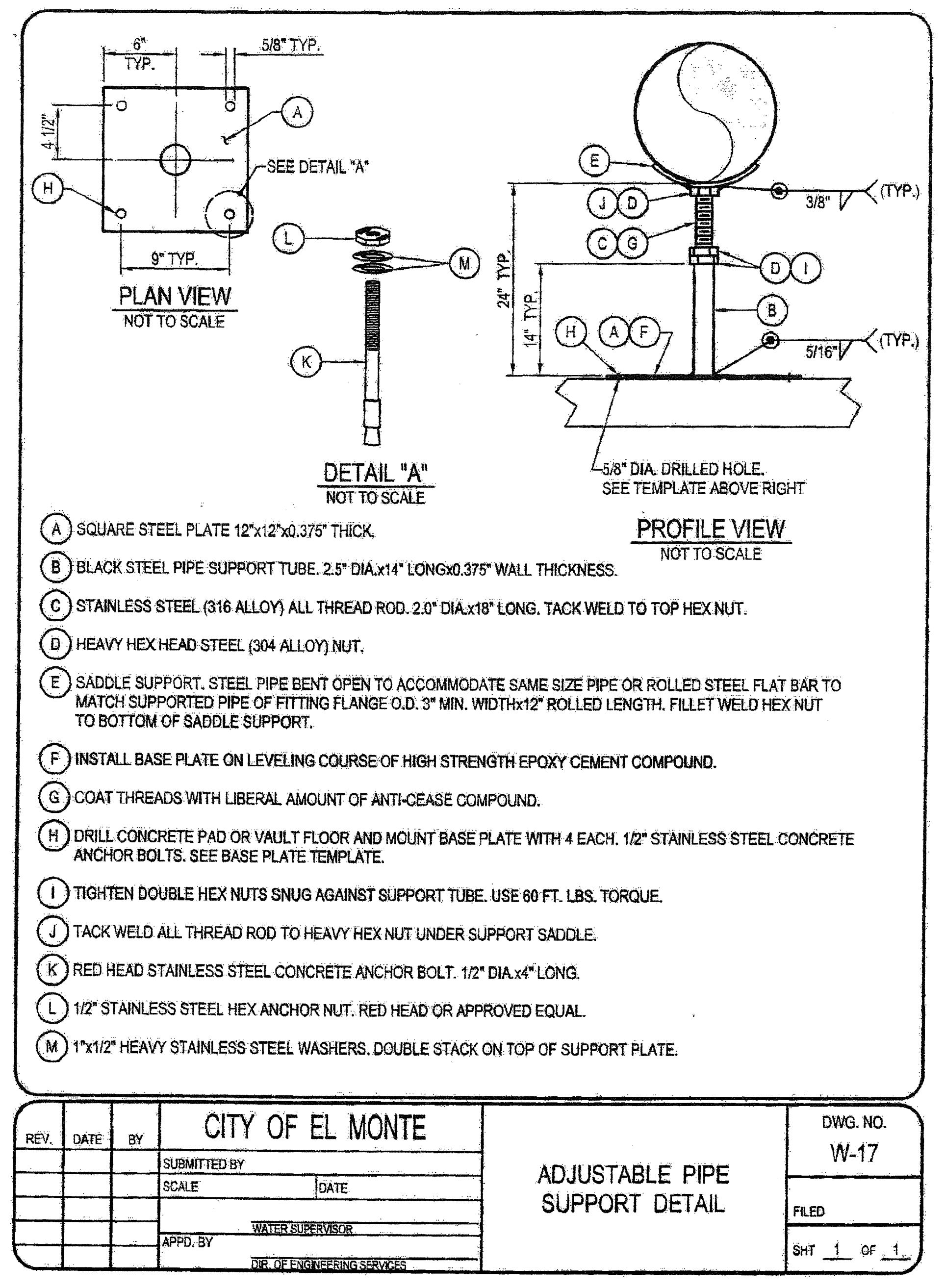

2" SQUARE STEEL OPERATING NUT
1/4" STL. PLATE X 5 1/2" DIA.
1 3/4"
1/4
VALVE BOX TUBE
VARIES
1 1/2" STD. STL. PIPE, (GALV.)
COAT STEM EXTENTION WITH ONE (1) COAT OF BITUMASTIC CA50 COAL TAR PAINT
1/4
1/8
10 GAUGE 2" X 2" EARS
2" SQUARE STL. SOCKET
REV.
DATE
BY
CITY OF EL MONTE
SUBMITTED BY
SCALE
DATE
WATER SUPERVISOR
APPD. BY
DIR. OF ENGINEERING SERVICES
DWG. NO.
W-12
FILED
SHT 1 OF 1

VALVE STEM EXTENSION DETAIL



SPECIAL NOTE:
PAINT THE PIPE BARRIERS YELLOW AND PROVIDE A REFLECTIVE WHITE TAPE STRIPE 6" BELOW TOP OF PIPE. PRIMER (1) COAT RED PRIMER RUST-O-LEUM NO. 769 AND FINISH WITH (2) COATS OF YELLOW RUST-O-LEUM NO. 659.

BARRICADE POST INSTALLATION DETAIL



Ⓐ SQUARE STEEL PLATE 12"x12"x0.375" THICK.
Ⓑ BLACK STEEL PIPE SUPPORT TUBE. 2.5" DIA.x14" LONGx0.375" WALL THICKNESS.
Ⓒ STAINLESS STEEL (316 ALLOY) ALL THREAD ROD. 2.0" DIA.x18" LONG. TACK WELD TO TOP HEX NUT.
Ⓓ HEAVY HEX HEAD STEEL (304 ALLOY) NUT.
Ⓔ SADDLE SUPPORT. STEEL PIPE BENT OPEN TO ACCOMMODATE SAME SIZE PIPE OR ROLLED STEEL FLAT BAR TO MATCH SUPPORTED PIPE OF FITTING FLANGE O.D. 3" MIN. WIDTHx12" ROLLED LENGTH. FILLET WELD HEX NUT TO BOTTOM OF SADDLE SUPPORT.
Ⓕ INSTALL BASE PLATE ON LEVELING COURSE OF HIGH STRENGTH EPOXY CEMENT COMPOUND.
Ⓖ COAT THREADS WITH LIBERAL AMOUNT OF ANTI-CEASE COMPOUND.
Ⓗ DRILL CONCRETE PAD OR VAULT FLOOR AND MOUNT BASE PLATE WITH 4 EACH. 1/2" STAINLESS STEEL CONCRETE ANCHOR BOLTS. SEE BASE PLATE TEMPLATE.
Ⓘ TIGHTEN DOUBLE HEX NUTS SNUG AGAINST SUPPORT TUBE. USE 60 FT. LBS. TORQUE.
Ⓙ TACK WELD ALL THREAD ROD TO HEAVY HEX NUT UNDER SUPPORT SADDLE.
Ⓚ RED HEAD STAINLESS STEEL CONCRETE ANCHOR BOLT. 1/2" DIA.x4" LONG.
Ⓛ 1/2" STAINLESS STEEL HEX ANCHOR NUT. RED HEAD OR APPROVED EQUAL.
Ⓜ 1"x1/2" HEAVY STAINLESS STEEL WASHERS. DOUBLE STACK ON TOP OF SUPPORT PLATE.

ADJUSTABLE PIPE SUPPORT DETAIL

REFER TO SHEETS C4 AND C5 FOR THE CONSTRUCTION NOTES SHOWN HEREON IN CIRCLES.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC ____ FLS ____ SS ____
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: C9
SHEET TITLE:

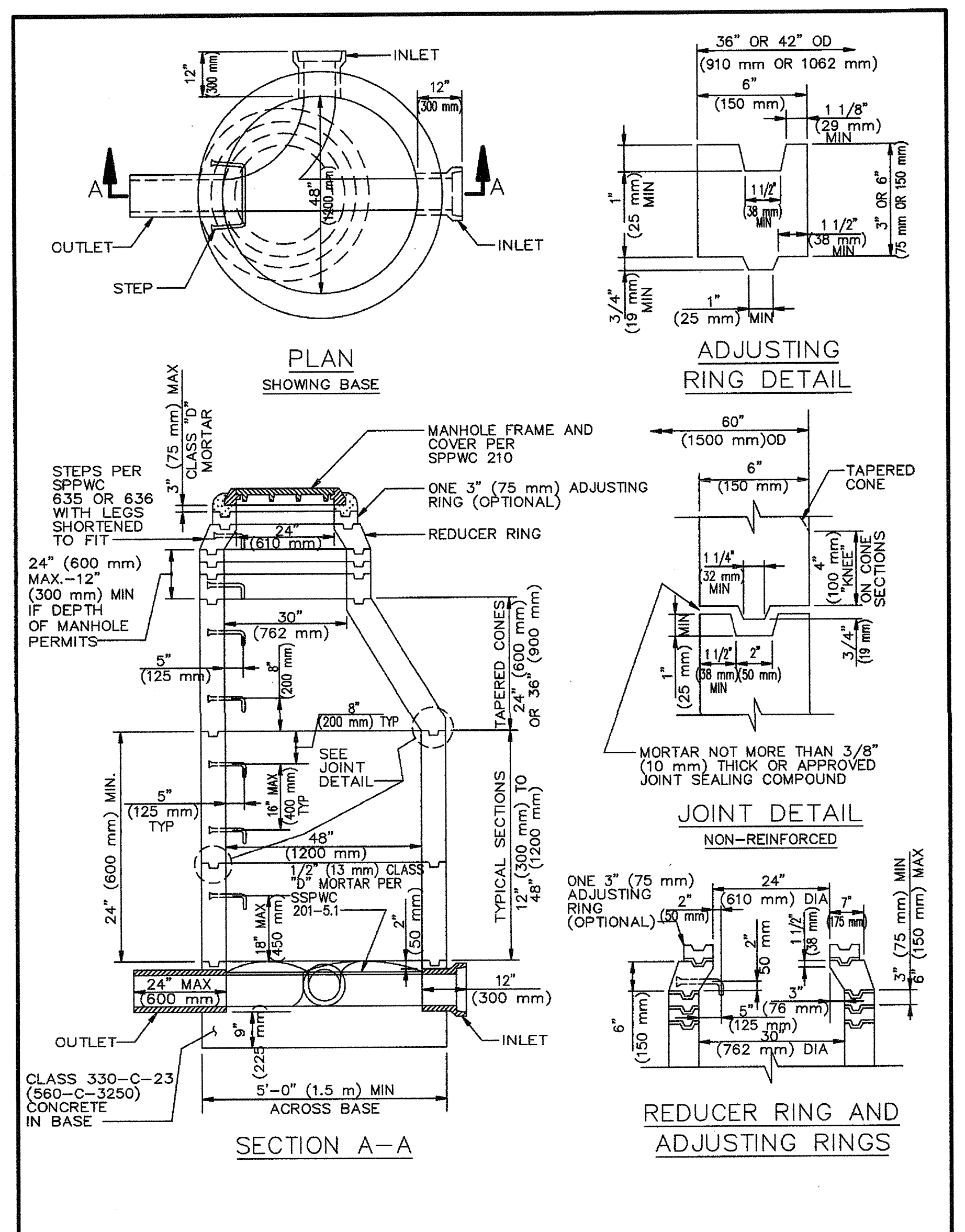
DETAIL SHEET

SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C9ds

5/6/2016 5:19:47 PM, MSL ENGINEERING, INC. PRINT/PLOT DATE (gb)


INLET
OUTLET
STEP
A
A
PLAN
SHOWING BASE
36" OR 42" OD
(910 mm OR 1062 mm)
ADJUSTING
RING DETAIL
MANHOLE FRAME AND COVER PER SPPWC 210
ONE 3" (75 mm) ADJUSTING RING (OPTIONAL)
REDUCER RING
STEPS PER SPPWC 635 OR 636 WITH LEGS SHORTENED TO FIT
24" (600 mm) MAX–12" (300 mm) MIN IF DEPTH OF MANHOLE PERMITS
60" (1500 mm) OD
TAPERED CONE
TAPERED CONES 24" (600 mm) OR 36" (900 mm)
TYPICAL SECTIONS 12" (300 mm) TO 48" (1200 mm)
SEE JOINT DETAIL
1/2" (13 mm) CLASS "D" MORTAR PER SSPWC 201-5
MORTAR NOT MORE THAN 3/8" (10 mm) THICK OR APPROVED JOINT SEALING COMPOUND
JOINT DETAIL
NON-REINFORCED
ONE 3" (75 mm) ADJUSTING RING (OPTIONAL)
24" (610 mm) DIA
30" (762 mm) DIA
CLASS 330-C-23 (560-C-3250) CONCRETE IN BASE
5'-0" (1.5 m) MIN
ACROSS BASE
SECTION A-A
REDUCER RING AND
ADJUSTING RINGS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
1984
REV. 1993, 1995, 2009

PRECAST CONCRETE
SEWER MANHOLE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN
200–3
SHEET 1 OF 2

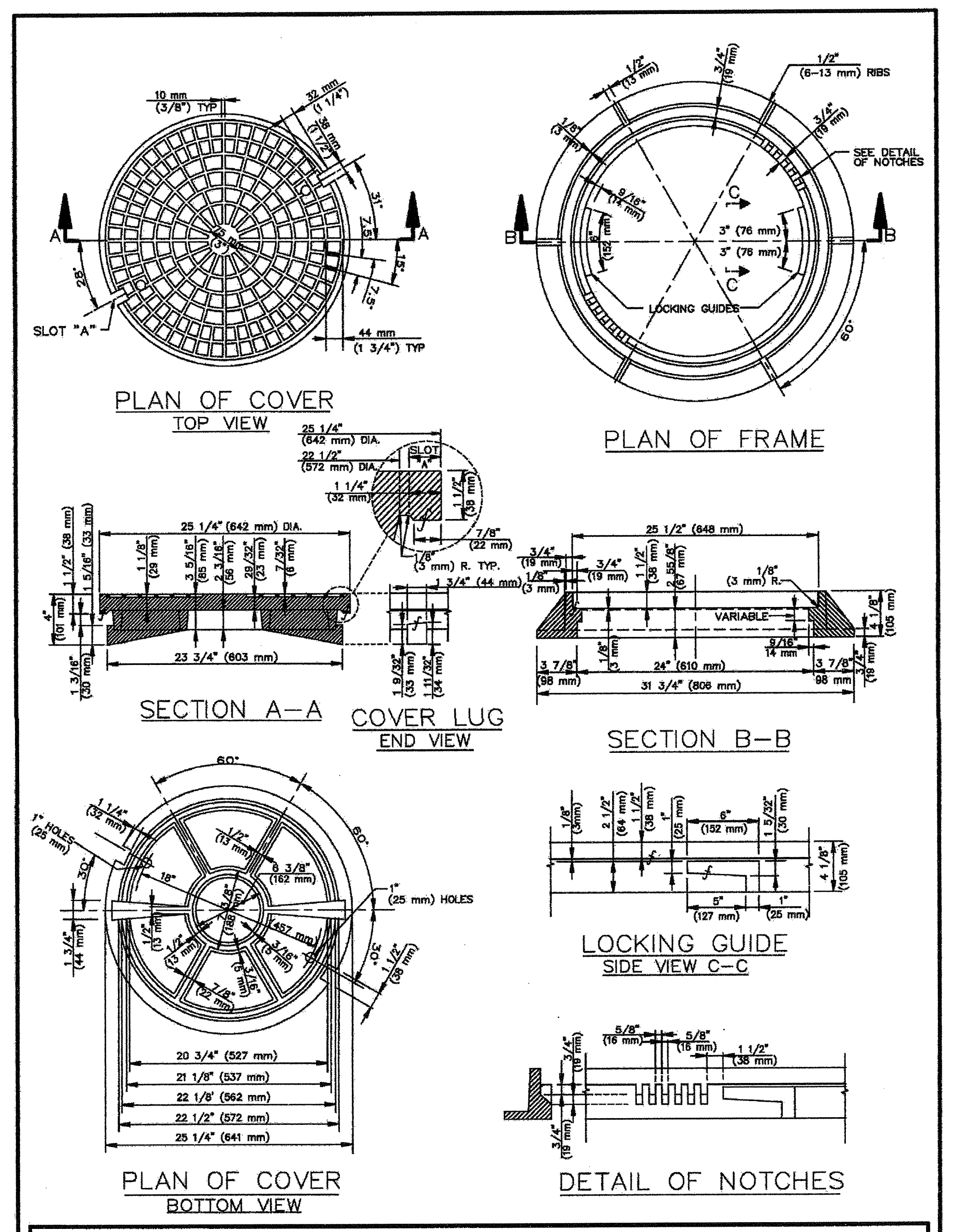
NOTES:

1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C 478. AS AN ALTERNATE CURING METHOD, THE UNITS MAY BE CURED USING SATURATED STEAM FOR A MINIMUM OF 12 HOURS FOLLOWED BY 6 DAYS OF WATER CURING OR MEMBRANE CURING. IF THE UNITS ARE CURED BY THE ALTERNATE METHOD, THEY SHALL NOT BE SHIPPED PRIOR TO 8 DAYS AFTER CASTING NOR UNTIL THE CONCRETE HAS ATTAINED A STRENGTH OF 3500 PSI (25 MPa).
2. MANHOLE STEPS SHALL CONFORM TO SPPWC 635 TYPE 1 OR 3 OR SPPWC 636. THE MANHOLE STEPS SHALL BE UNIFORMLY SPACED AT A MAXIMUM OF 16" (400 mm). THE LOWEST STEP SHALL BE PLACED NOT LESS THAN 8" (200 mm) NOR MORE THAN 18" (450 mm) ABOVE THE SHELF. THE STEPS SHALL PROJECT 5" (125 mm) INSIDE THE MANHOLE.
3. RISER SECTIONS MAY BE REINFORCED OR UNREINFORCED. REINFORCED SECTIONS SHALL BE REINFORCED IN ACCORDANCE WITH ASTM C 478 AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5" (125 mm). UNREINFORCED RISER SECTIONS SHALL HAVE A MINIMUM WALL THICKNESS OF 6" (150 mm).
4. THE 24"x48" (600 mm x 1200 mm) ECCENTRIC CONES MAY BE REINFORCED OR UNREINFORCED. IF REINFORCED, THE WALL THICKNESS SHALL BE NOT LESS THAN 5" (125 mm). IF UNREINFORCED, THE WALL THICKNESS SHALL NOT BE LESS THAN 6" (150 mm).
5. JOINTS SHALL BE TONGUE AND GROOVE. JOINTS FOR REINFORCED STRUCTURES SHALL CONFORM WITH ASTM C 478 SECTION 14.
6. PRECAST UNITS SHALL BE ASSEMBLED USING CLASS "B" MORTAR.
7. IF 30" (762 mm) DIAMETER MANHOLE FRAME AND COVER IS REQUIRED, IT SHALL BE INSTALLED WHERE THE REDUCER RING IS SHOWN IN THE SECTION.
8. FOR REINFORCED PRECAST STRUCTURES, ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 2" (50 mm) OF COVER OVER THE STEEL ON THE INSIDE FACE.
9. THE TOP OPENING OF THE MANHOLE AND THE STEPS SHALL BE PLACED DIRECTLY OVER THE OUTLET OF THE STRUCTURE EXCEPT AS OTHERWISE NOTED ON PLANS.
10. CONCRETE BASE AND STUB WALLS SHALL BE POURED IN ONE OPERATION TO A POINT 2" (50 mm) ABOVE THE INLET AND OUTLET PIPES. ALL PIPES SHALL BE RIGIDLY SUPPORTED BY TEMPORARY PIERS OR OTHER METHODS DURING THE OPERATION. CONCRETE SHALL SET FOR 24 HOURS BEFORE PLACING PRECAST UNITS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PRECAST CONCRETE
SEWER MANHOLE

STANDARD PLAN
200–3
SHEET 2 OF 2



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS, INC.,
GREENBOOK COMMITTEE
1984
REV. 1993, 1996, 2009

24" (610 mm) MANHOLE FRAME
AND COVER–LOCKING TYPE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN
210–3
SHEET 1 OF 2

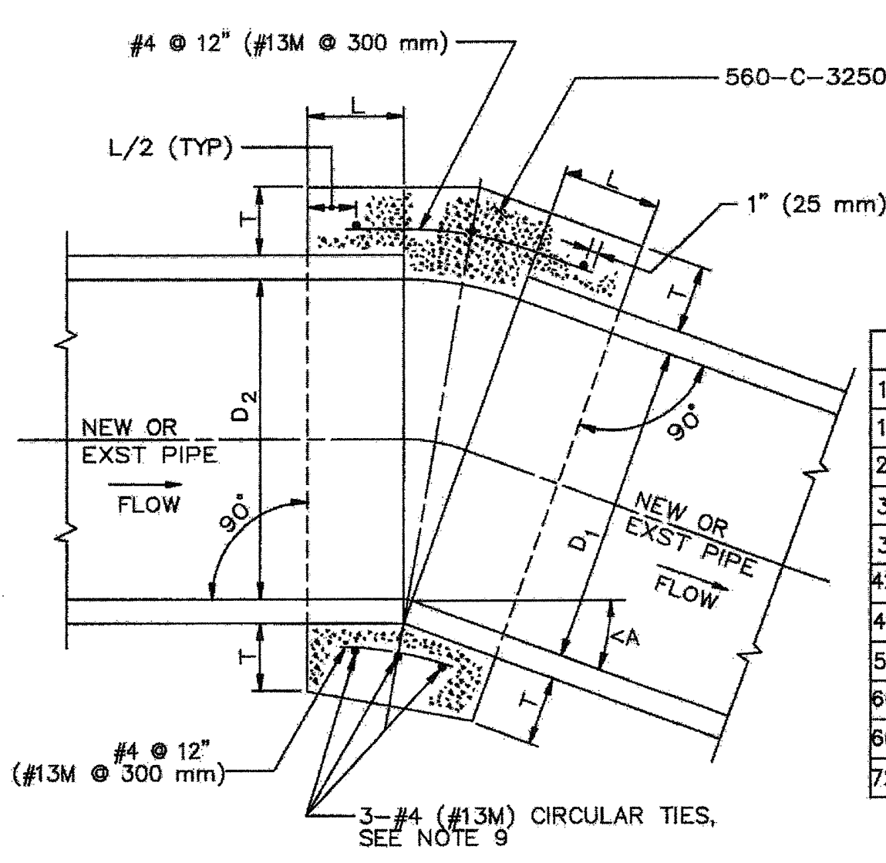
NOTES:

1. THE CAST IRON USED SHALL CONFORM TO ASTM A–48 CLASS 35B.
2. THE FRAME AND COVER SHALL BE COATED WITH ASPHALTUM OR BITUMINOUS PAINT AFTER TESTING AND INSPECTION.
3. COVERS SHALL BE CAST WITH THE LETTER "D" FOR STORM DRAINS AND "S" FOR SEWERS AND THE AGENCY IDENTIFICATION IN ACCORDANCE WITH INSTRUCTIONS FURNISHED BY THE AGENCY. THE LETTER "D" OR "S" SHALL BE APPROXIMATELY 2 1/2" (65 mm) HIGH WITH 1/2" (13 mm) LINE WIDTH AND PLACED IN THE CENTER OF THE COVER. ALL LETTERS SHALL BE FLUSH WITH THE FINISHED SURFACE OF THE COVER.
4. FOUNDRY IDENTIFYING MARK, HEAT AND DATE SHALL BE CAST ON THE BOTTOM OF THE COVER AND ON THE INSIDE OF THE FRAME.
5. IMPORTED COVERS AND FRAMES SHALL HAVE THE COUNTRY OF ORIGIN MARKING IN COMPLIANCE WITH FEDERAL REGULATIONS.
6. WEIGHT OF FRAME SHALL BE 160 POUNDS (73 kg). WEIGHT OF COVER SHALL BE 200 POUNDS (91 kg). ACTUAL WEIGHTS SHALL BE WITHIN A RANGE OF 95% TO 110%.
7. THE MANHOLE FRAME AND COVER SHALL BE INSPECTED BY THE ENGINEER PRIOR TO SHIPMENT TO THE JOBSITE. ACCEPTANCE WILL BE INDICATED BY THE AGENCY'S MARK.
8. THE PROOF–LOAD FOR TEST METHOD B OF SSPWC 206–3.2 IS 55,300 POUNDS (228 kN).
9. COVERS FOR MANHOLES LOCATED IN EASEMENTS, ALLEYS, PARKWAYS AND ALL OTHER PLACES EXCEPT PAVED STREETS SHALL BE PROVIDED WITH SOCKET SET SCREW LOCKING DEVICES. DRILL AND TAP TWO HOLES TO A DEPTH OF 1" (25 mm) AT 90° TO PICK HOLE AND INSTALL 3/4" x 3/4" (19 mm x 19 mm) STAINLESS STEEL SOCKET SET SCREWS WITH 3/8" (10 mm) RECESSED HEX HEAD. ALL THREADS SHALL BE N.C.

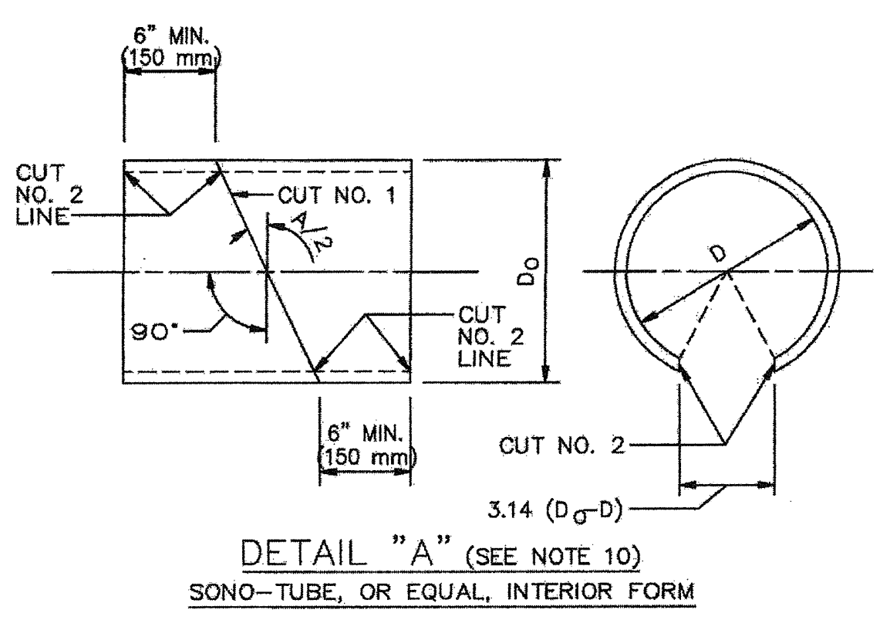
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

24" (610 mm) MANHOLE FRAME
AND COVER–LOCKING TYPE

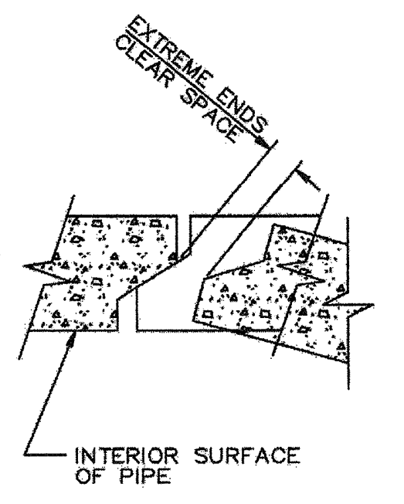
STANDARD PLAN
210–3
SHEET 2 OF 2



D	L	T
12" (300 mm)	12" (300 mm)	4" (100 mm)
18" (450 mm)	12" (300 mm)	5" (125 mm)
24" (600 mm)	12" (300 mm)	6" (150 mm)
30" (750 mm)	18" (450 mm)	7" (175 mm)
36" (900 mm)	18" (450 mm)	9" (225 mm)
42" (1050 mm)	18" (450 mm)	9" (225 mm)
48" (1200 mm)	18" (450 mm)	10" (250 mm)
57" (1425 mm)	18" (450 mm)	10" (250 mm)
60" (1500 mm)	21" (525 mm)	11" (275 mm)
66" (1650 mm)	21" (525 mm)	11" (275 mm)
72" (1800 mm)	24" (600 mm)	12" (300 mm)



CUT NO. 1: SAW THE TUBE AT AN ANGLE OF A/2 WITH THE TRANSVERSE PLANE. REVERSE ONE SECTION AND TAPE BOTH SECTIONS TOGETHER FORMING THE DEFLECTION ANGLE A.
CUT NO. 2: SAW THE TUBE LONGITUDINALLY REMOVING A STRIP 3.14 (D_0–D) WIDE ON THE SIDE OPPOSITE THE OPEN JOINT. BEND THE ENDS OF THE CUT TOGETHER AND INSERT THE TUBE IN THE PIPE.



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
1992
REV. 1996, 1997, 1999, 2009

CONCRETE COLLAR FOR RCB
12" (300 mm) THROUGH 72" (1800 mm)

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN
380–4
SHEET 1 OF 2

NOTES

1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 10%.
2. FOR CURVE JOINTS (SEE DETAIL B, SHEET 1)

   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS GREATER THAN 1" (25 mm), BUT IS LESS THAN 3" (75 mm) A CONCRETE COVER IS REQUIRED IN ACCORDANCE WITH SSPWC 306–1.2.4.

   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS EQUAL TO OR GREATER THAN 3" (75 mm), BUT LESS THAN 6" (150 mm), A CONCRETE COLLAR IS REQUIRED. IF THE CLEAR SPACE IS 6" (150 mm) OR GREATER, A TRANSITION STRUCTURE IS REQUIRED.
3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
4. CONNECTOR PIPES
   - A. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. $D=D_1$ OR D_2, WHICHEVER IS GREATER.
   - B. WHEN D_1 IS EQUAL TO OR LESS THAN D_2, JOIN INVERTS AND WHEN D_1 IS GREATER THAN D_2, JOIN SOFFITS.
5. FOR PIPE LARGER THAN 72" (1800 mm) SPECIAL COLLAR DETAILS ARE REQUIRED.
6. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
7. REINFORCEMENT SHALL CONFORM TO ASTM A 615 (A 615 M) GRADE 40 (300).
8. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2X WALL THICKNESS) + T.
9. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" (525 mm) AND ON ALL PIPES WHERE THE SPACES BETWEEN THE EXTREME OUTER ENDS IS 3" (75 mm) OR LARGER.

   CIRCULAR TIES:

PIPE DIAMETER	NO. OF CIRCULAR TIES
21" (525 mm) OR LESS	3
24" (600 mm) TO 30" (750 mm)	3
33" (825 mm) TO 57" (1425 mm)	4
60" (1500 mm) TO 72" (1800 mm)	5

   WHERE THE SPACE BETWEEN PIPE ENDS EXCEEDS 3" (75 mm), THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN AN APPROXIMATE SPACING OF 6" (150 mm) O.C.
10. WHERE THE PIPE IS 21" (525 mm) OR LESS IN DIAMETER AN INTERIOR FORM OF UNSEALED SONO–TUBE OR EQUAL SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE (SEE DETAIL A). WHEN THE PIPE IS 24" (600 mm) OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

CONCRETE COLLAR FOR RCB
12" (300 mm) THROUGH 72" (1800 mm)

STANDARD PLAN
380–4
SHEET 2 OF 2

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL
BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
402 W. ARROW HWY. STE. 4
SAN DIMAS, CA. 91773
(909) 305–2395 FAX (909) 305–2397

Mark S. Lamoureux 03-31-2017
MARK S. LAMOUREUX (R.C.E. 38382) DATE

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: **C10**
SHEET TITLE:

DETAIL SHEET

ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA. 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

JN 14023-14023 C10ds

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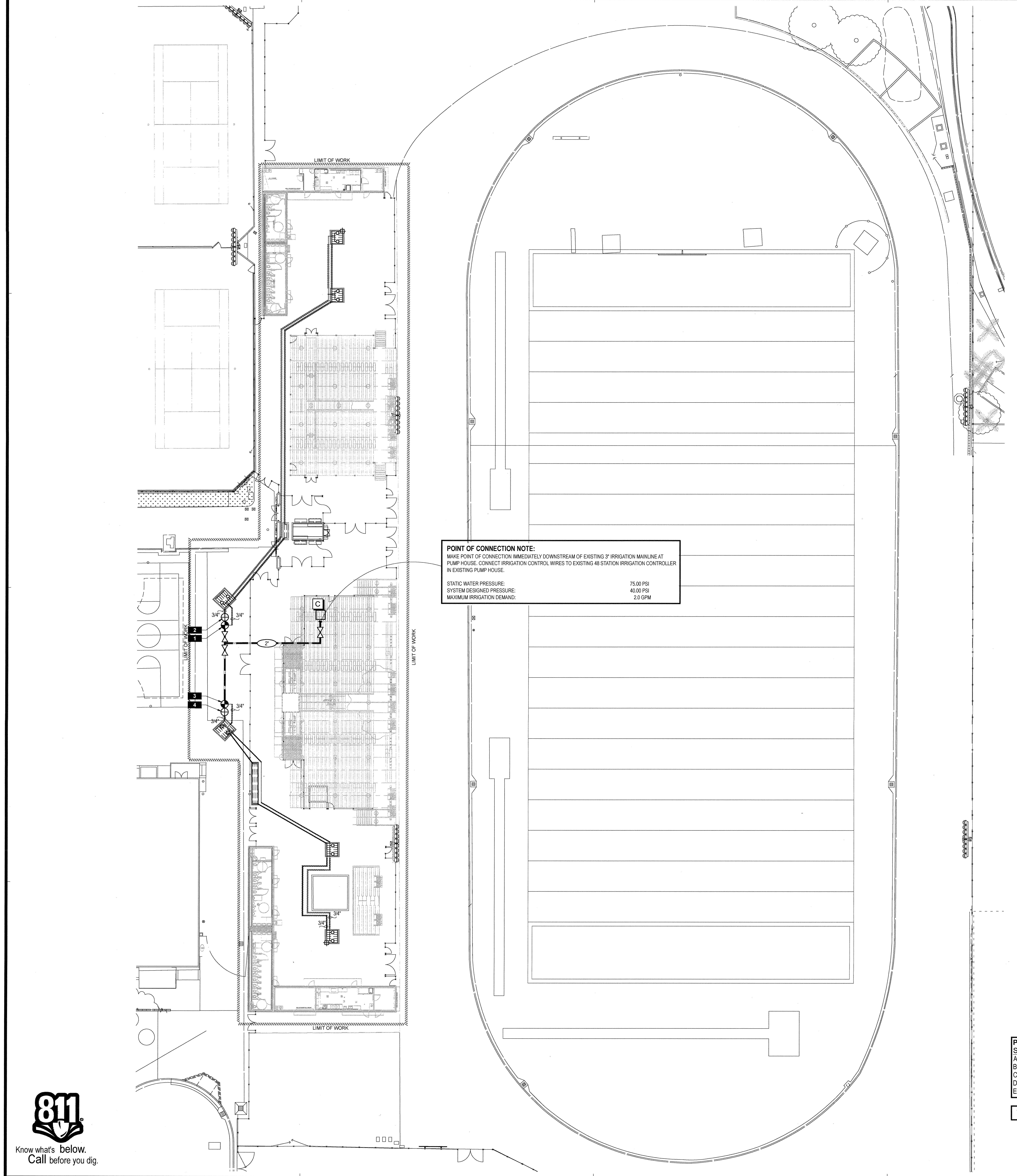


POINT OF CONNECTION NOTE:
MAKE POINT OF CONNECTION IMMEDIATELY DOWNSTREAM OF EXISTING 3" IRRIGATION MAINLINE AT PUMP HOUSE. CONNECT IRRIGATION CONTROL WIRES TO EXISTING 48 STATION IRRIGATION CONTROLLER IN EXISTING PUMP HOUSE.

STATIC WATER PRESSURE:	75.00 PSI
SYSTEM DESIGNED PRESSURE:	40.00 PSI
MAXIMUM IRRIGATION DEMAND:	2.0 GPM

IRRIGATION NOTES:

1. THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.
2. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY.
3. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND COMMUNICATE TO OWNER'S CONSTRUCTION REPRESENTATIVE.
4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES.
5. MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER, AND BACKFLOW PREVENTER TO BE OF MATERIAL REQUIRED BY CURRENT WATER DISTRICT.
6. FINAL LOCATION OF THE AUTOMATIC CONTROLLER ENCLOSURE AND THE BACKFLOW PREVENTION DEVICE SHALL BE APPROVED BY THE CITY'S AND OWNER'S REPRESENTATIVE, AND/OR LANDSCAPE ARCHITECT, WHERE APPLICABLE.
7. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS PRIOR TO PAVING UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.
8. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, STREETS, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE RADIUS TO FIT UNUSUAL SITE CONDITIONS FOR APPROVAL PURPOSES AT NO EXTRA CHARGE. CALL LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR ANY COVERAGE TESTS.
9. QUALITY CONTROL OBSERVATION SEQUENCES ARE FOUND IN THE SPECIFICATIONS.
10. CLEAN-UP ON A DAILY BASIS PER OWNER'S REPRESENTATIVE'S APPROVAL.

IRRIGATION LEGEND:

DRIP AND EMITTERS:

SYMBOL	MANUF.	MODEL #	DESCRIPTION	GPM	RADIUS	PSI	DETAIL REFERENCE
⬚	NETAFIM	TLRW6-12	TECHLINE RW DRIPLINE	0.010	DRIP	30	SEE **DETAIL E, SHEET L-1.1**
⬚	RAINBIRD	RWS-B-C-1401	ROOTWATERING SYSTEM	0.25(2)	BUB	30	SEE **DETAIL D, SHEET L-1.1**

EQUIPMENT:

SYMBOL	MANUF.	MODEL #	DESCRIPTION	DETAIL REFERENCE
⋈	NIBCO	T-585	LINE-SIZE GATE VALVE IN VALVE BOX	SEE **DETAIL C, SHEET L-1.1.**
⊕	RAINBIRD	EFB-CP-PBR QKCHK-100	REMOTE CONTROL BRASS GLOBE VALVE & DRIP FILTER KIT IN PLASTIC VALVE BOX	SEE **DETAIL A, SHEET L-1.1.**
◕	RAINBIRD	EFB-CP	ELECTRIC REMOTE CONTROL VALVE, SIZE AS SHOWN, IN PLASTIC VALVE BOX	SEE **DETAIL B, SHEET L-1.1.**
⌗	NETAFIM	TL050MFV-1	1/2" AUTOMATIC FLUSH VALVE AT LOWEST POINT, IN PLASTIC VALVE BOX	SEE **DETAIL G, SHEET L-1.1.**
C	EXISTING		EXISTING 48 STATION WEATHERMATIC IRRIGATION CONTROLLER.	
▬ ▬	APPROVED	SCH. 40 PVC	MAINLINE SIZED AS SHOWN, MINIMUM COVER OF 18".	SEE **DETAIL F, SHEET L-1.1.**
───	APPROVED	SCH. 40 PVC	LATERAL LINE SIZED AS SHOWN (MINIMUM OF 3/4"), MINIMUM COVER OF 12".	SEE **DETAIL F, SHEET L-1.1.**
───	APPROVED	SCH. 40 PVC	DRIPLINE LATERAL LINE SIZED AS SHOWN (MI. OF 3/4"), MINIMUM COVER OF 12".	SEE **DETAIL F, SHEET L-1.1.**
═══	APPROVED	SCH. 40 PVC	LATERAL SLEEVE, 2X LATERAL SIZE, UNLESS OTHERWISE NOTED.	SEE **DETAIL F, SHEET L-1.1.**

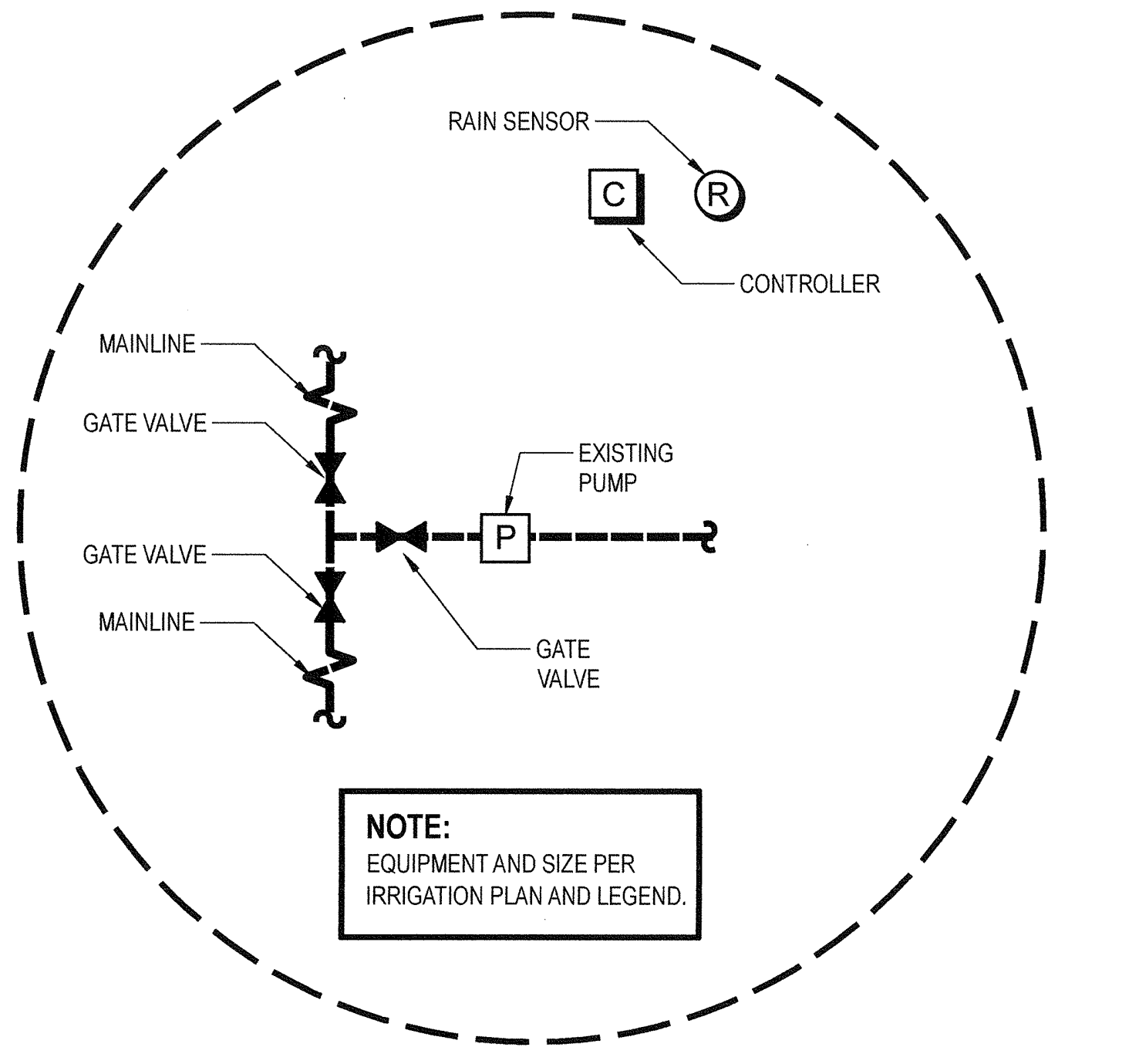
NETAFIM INSTALLATION NOTES:

- A. NETAFIM "TECHLINE CV" EMITTERS AND SPACING BETWEEN LINES AS PER IRRIGATION LEGEND.
- B. LOCATE NETAFIM FLUSH VALVE AT LOWEST POINTS OF EACH SEPARATE PLANTER AREA WITHIN SYSTEM. INSTALL IN PLANTER AREA. SEE FLUSH VALVE DETAIL IN THIS PACKAGE FOR INSTALLATION INSTRUCTIONS. (FOR NON-CV LINES AIR RELIEF VALVE WILL BE REQUIRED. IF NEEDED LOCATE AT OR NEAR HIGH POINT OF PLANTER AREA WITHIN SYSTEM). UNDER NORMAL CIRCUMSTANCES TECHLINE CV DOES NOT REQUIRE AIR RELIEF VALVES.
- C. CONNECT TECHLINE CV TO PVC WITH PVC TEES AND COMPRESSION FITTINGS. USE COMPRESSION FITTINGS FOR ALL PVC TO TECHLINE CONNECTIONS. PRIME AND GLUE ALL PVC TO PVC CONNECTIONS.

SLEEVING NOTE:
ALL IRRIGATION MAINLINES, LAERALS, AND WIRES INSTALLED UNDER HARDSCAPE OR COBBLE PAVING SHALL BE INSTALLED IN SCH. 40 PVC PIPE SLEEVES. IRRIGATION WIRE SLEEVES TO BE 2" DIAMETER MINIMUM. MAINLINE AND LATERAL LINE SLEEVES TO BE TWO TIMES (2x) LARGER THAN THE SIZE OF THE PIPE TO BE SLEEVED.

VALVE CALLOUT CHART:

#	TYPE	PLANT	SIZE	GPM	HZ	SF
1	BUBBLER	TREE	1"	2	2	96
2	DRIPLINE	SHRUB	1"	2	1	150
3	BUBBLER	TREE	1"	2	2	96
4	DRIPLINE	SHRUB	1"	2	1	195



NOTE:
EQUIPMENT AND SIZE PER IRRIGATION PLAN AND LEGEND.

TYPICAL POTABLE WATER P.O.C.

PIPE SIZING CHART:
SCHEDULE 40 PVC

A	3/4"	0-8	GPM
B	1"	9-12	GPM
C	1 1/4"	13-22	GPM
D	1 1/2"	23-30	GPM
E	2"	31-50	GPM

PLAN CROSS REFERENCES:

FOR NOTES AND LEGENDS, THIS SHEET
FOR IRRIGATION DETAILS, SEE SHEET L-1.1
FOR IRRIGATION SPECIFICATIONS, SEE BOOK SPECS
FOR CORRESPONDING PLANTING PLAN SEE SHEET L-2.0

THIS SYSTEM IS DESIGNED TO USE WATER FROM A POTABLE WATER SOURCE

0 10' 20' 40' 80'
SCALE: 1" = 20'

NORTH

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Richard W. Krumwiede 2834
7-31-18
8-25-18

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DIVISION OF THE STATE ARCHITECT
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A# **03-117117**
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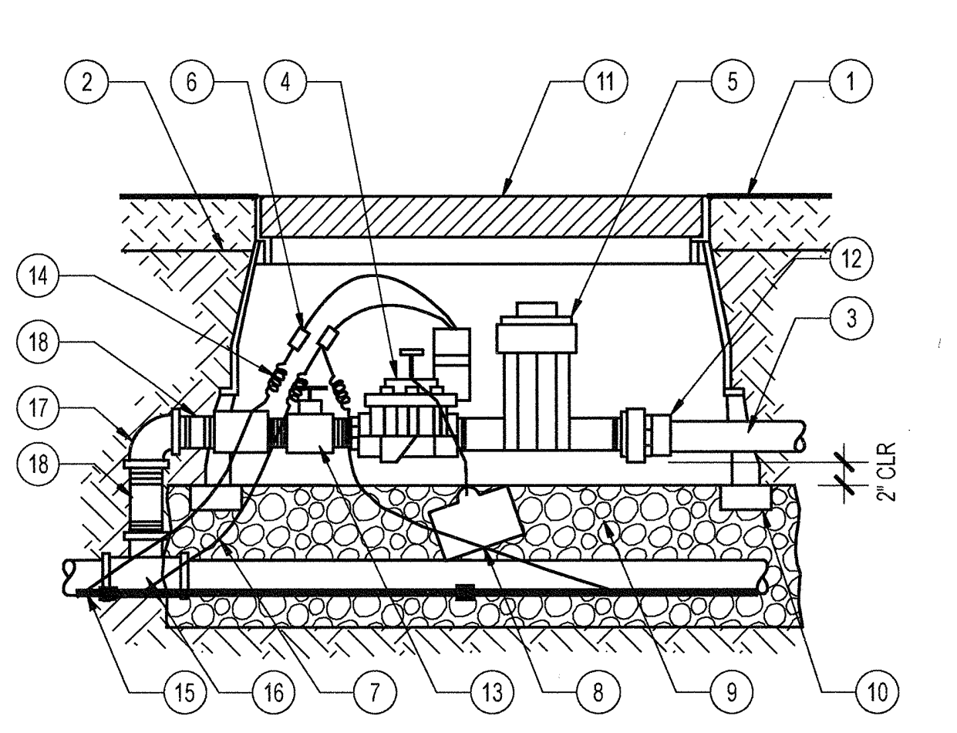
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE:

SHEET NUMBER: **L-1.0**
SHEET TITLE:

IRRIGATION PLAN

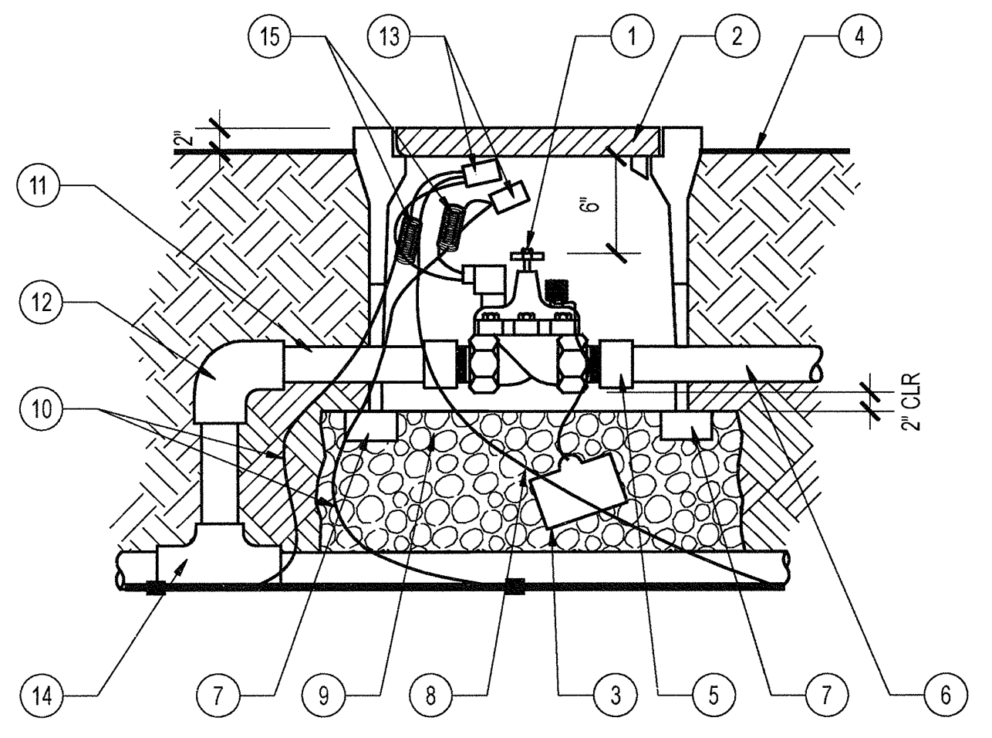
ARCHITERRA DESIGN GROUP
LANDSCAPE ARCHITECTURE AND PLANNING
10221-A Trademark Street
Rancho Cucamonga, CA 91730
PH. (909) 484-2800
Fax (909) 484-2802
Richard Krumwiede
CA Lic. # 2834
AZ LIC. # 29115
NV LIC. # 446



LEGEND:
1. MULCH BED.
2. FINISH GRADE.
3. PVC LATERAL LINE, SIZE PER PLAN.
4. AUTOMATIC CONTROL VALVE PER IRRIGATION PLAN.
5. PRESSURE REGULATING, QUICK CHECK BASKET FILTER.
6. WATERPROOF WIRE CONNECTORS PER IRRIGATION SPECIFICATIONS.
7. PILOT WIRE.
8. APPROVED PLASTIC CHRISTY VALVE I.D. TAG.
9. 3/4" CRUSHED GRAVEL, 3 CU. FT. MINIMUM.
10. BRICK SUPPORT, (4) REQUIRED.
11. RECTANGULAR VALVE BOX w/ BOLT DOWN COVER PER SPECIFICATIONS.
12. PVC UNION FOR SERVICING ASSEMBLY.
13. BALL VALVE.
14. CONTROL WIRE EXPANSION LOOP.
15. PRESSURE MAINLINE.
16. PVC SCH. 80 TEE.
17. PVC SCH. 80 ELBOW.
18. PVC SCH. 80 NIPPLE.

NOTES:
A. INSTALL VALVES MINIMUM OF 2'-0" APART, AND A MINIMUM OF 2'-0" FROM STRUCTURES AND HARDSCAPES IN SHRUB AREAS.
B. PLACE 3/4" CRUSHED GRAVEL PRIOR TO INSTALLATION OF VALVE BOX.
C. PLACE VALVE BOX AT RIGHT ANGLE TO ADJACENT HARDSCAPE OR STRCUCTURE.
D. PROVIDE PLASTIC VALVE CHRISTY I.D. TAGS PER SPECIFICATIONS.
E. HEAT BRAND BOX 'DRIP RCV'.
F. USE NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.

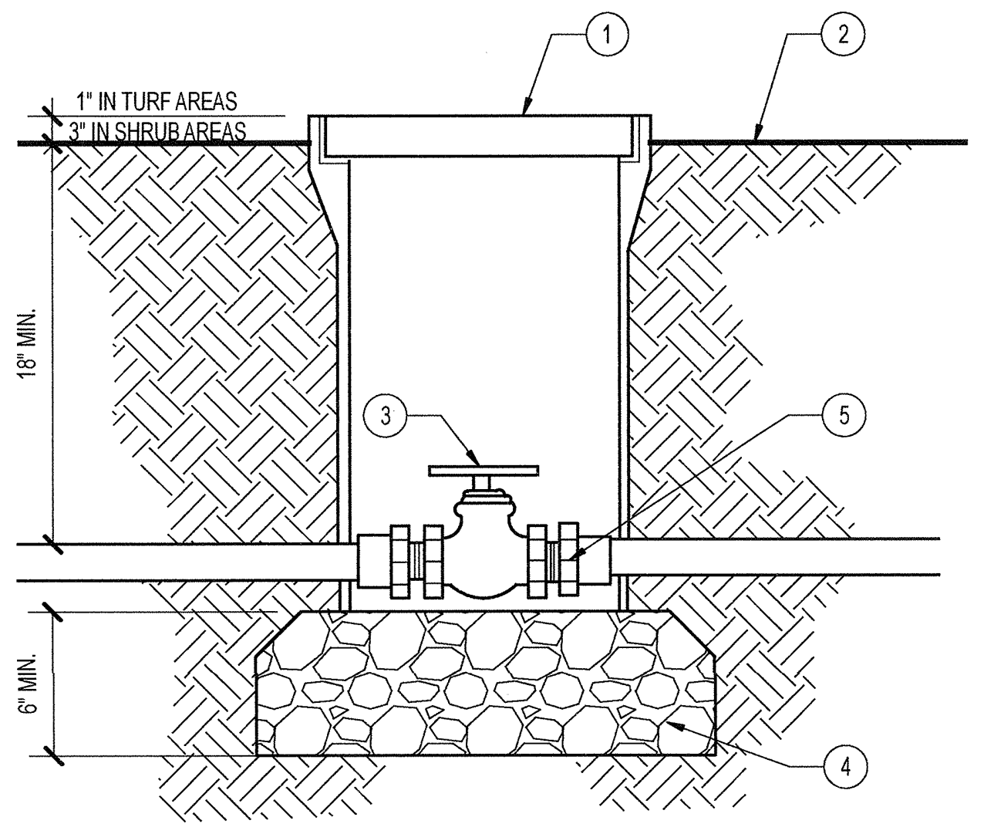
A REMOTE CONTROL DRIP VALVE
SCALE: 1" = 1'-0"



LEGEND:
1. ELECTRIC CONTROL VALVE.
2. RECTANGULAR PLASTIC VALVE BOX W/ BOLT-DOWN COVER. HEAT BRAND VALVE STATION NO. ON LID IN 2" HIGH CHARACTERS.
3. YELLOW PLASTIC CHRISTY VALVE I.D. TAG.
4. FINISH GRADE.
5. PVC MALE ADAPTOR (TYP).
6. PVC PIPE TO SPRINKLERS - ANGLE PIPE TO SPECIFIED DEPTH w/ 45° ELLS.
7. COMMON BRICK (4) REQUIRED.
8. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER.
9. 3/4" CRUSHED ROCK, 8" DEEP.
10. CONTROL / COMMON WIRES FROM CONTROLLER.
11. PVC SCH 40 PIPE (TYP).
12. PVC SXS 90° ELL.
13. WIRE CONNECTOR.
14. MAINLINE FITTING W/ SOLVENT. WELD OUTLET.
15. COIL WIRES PER SPECIFICATIONS.

NOTES:
A. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC TO PVC OR METAL TO PVC MALE PIPE THREADS.

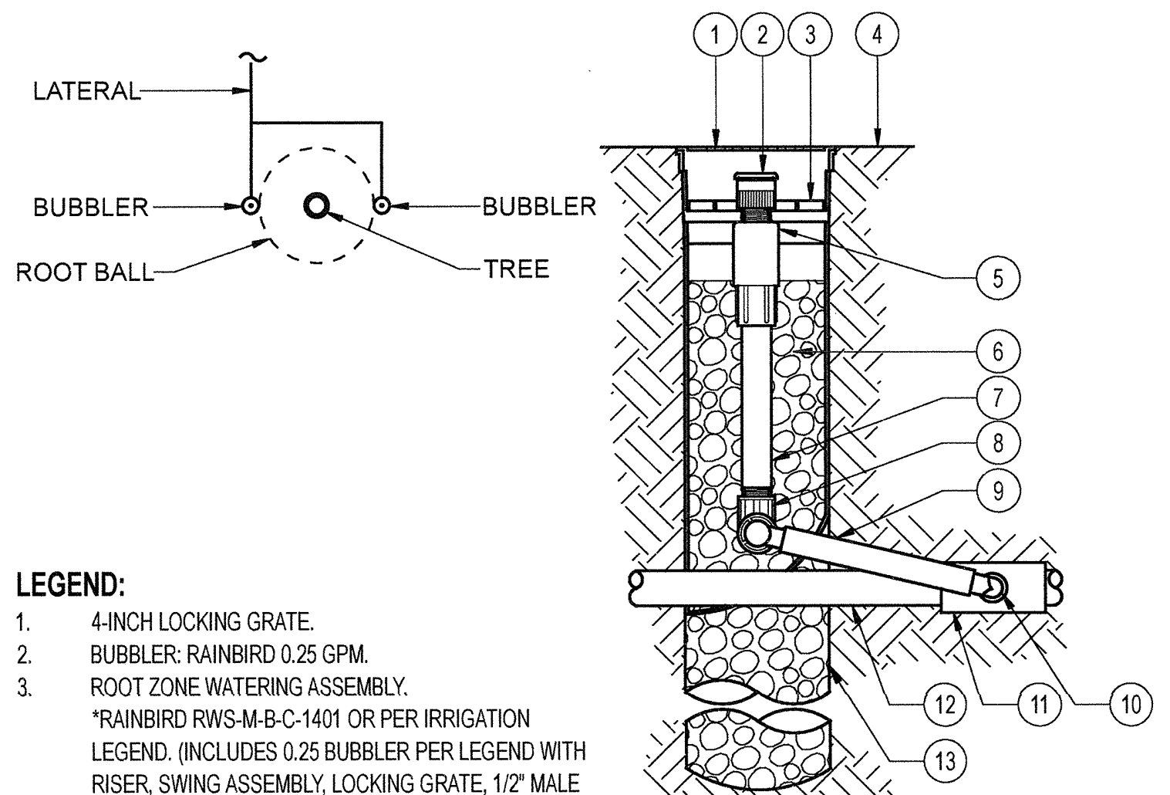
B REMOTE CONTROL VALVE
SCALE: 1" = 1'-0"



LEGEND:
1. ROUND PLASTIC VALVE BOX & COVER MARKED 'IRRIGATION GATE'. USE CHRISTY FL8 BOX & FL80 LID OR EQUAL.
2. FINISH GRADE.
3. GATE VALVE. SEE IRRIGATION LEGEND FOR MODEL NO.
4. 3/4" WASHED CRUSHED AGGREGATE BASE.
5. SCH. 40 PVC MALE ADAPTORS.

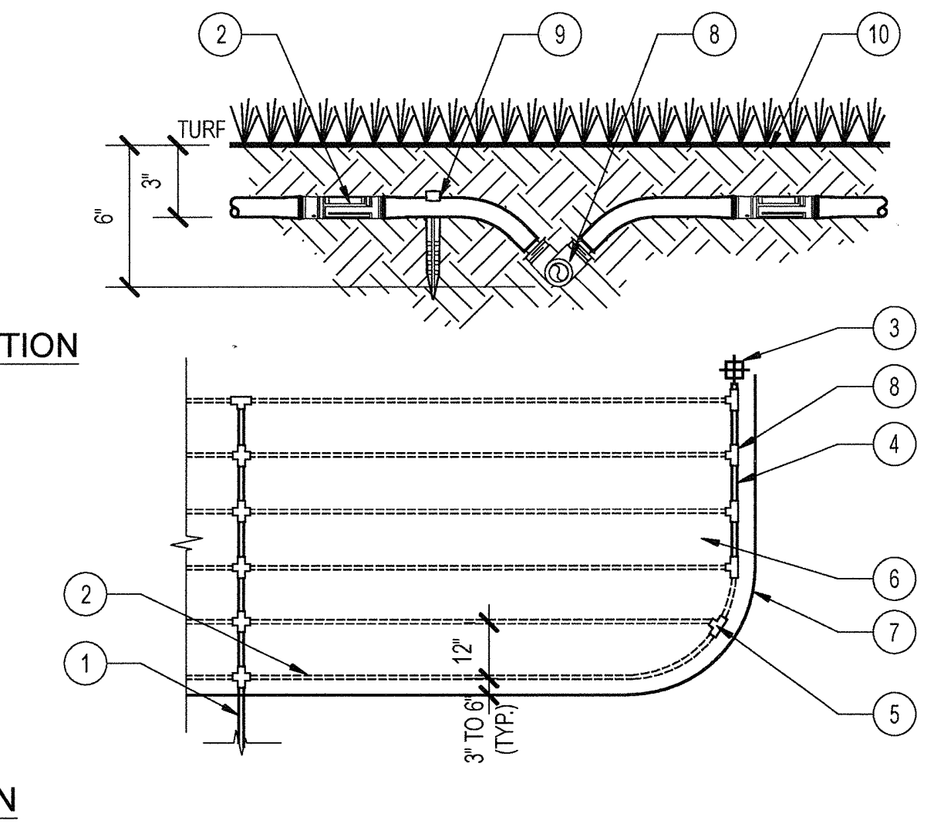
NOTES:
A. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

C GATE VALVE
SCALE: 1 1/2" = 1'-0"



LEGEND:
1. 4-INCH LOCKING GRATE.
2. BUBBLER: RAINBIRD 0.25 GPM.
3. ROOT ZONE WATERING ASSEMBLY. *RAINBIRD RWS-M-B-C-1401 OR PER IRRIGATION LEGEND. (INCLUDES 0.25 BUBBLER PER LEGEND WITH RISER, SWING ASSEMBLY, LOCKING GRATE, 1/2" MALE NPT INLET, AND BASKET CANISTER).
4. FINISH GRADE.
5. CHECK VALVE.
6. PEA GRAVEL FILL.
7. 1/2-INCH PVC SCH 80 NIPPLE.
8. 1/2-INCH 90-DEGREE ELBOW.
9. 12-INCH SWING ASSEMBLY.
10. 1/2-INCH MALE NPT INLET.
11. PVC SCH 40 TEE OR ELL.
12. LATERAL PIPE.
13. 4-INCH BASKET WEAVE CANISTER.

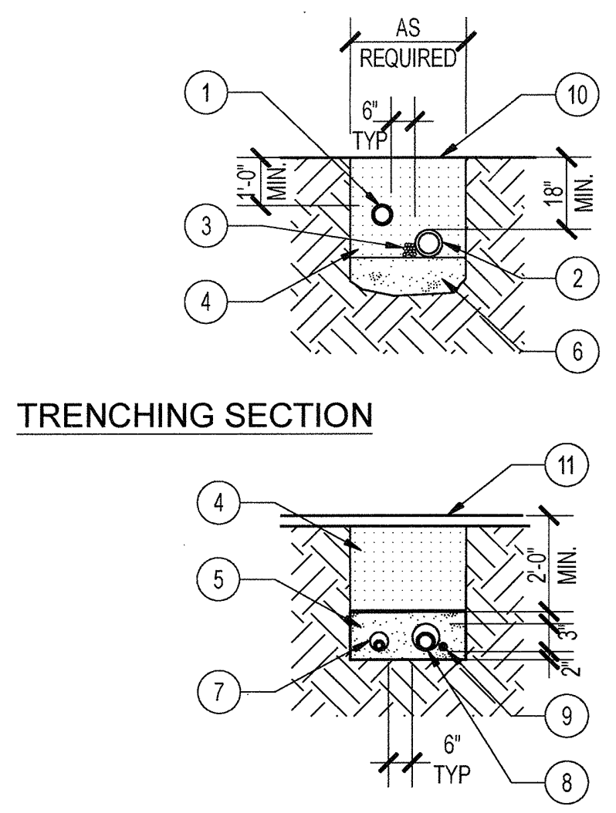
D BUBBLER TO TREE
SCALE: 1" = 1'-0"



LEGEND:
1. PVC INPUT LATERAL FROM VALVE, SIZE AS NOTED ON IRRIGATION PLAN.
2. NETAFIM DRIPPERLINE TLCV, EMITTERS AND SPACING BETWEEN LINES AS PER IRRIGATION LEGEND.
3. MANUAL 1/2" FLUSH VALVE, MODEL AS NOTED ON IRRIGATION PLAN. INSTALL IN PLANTER AREA AT LOW END FARTHEST FROM VALVE. SEE FLUSH VALVE DETAIL FOR INSTALLATION.
4. PVC EXHAUST HEADER, SIZE AS REQUIRED (3/4" MINIMUM). CONNECT TECHLINE TO PVC WITH PVC TEES AND COMPRESSION FITTINGS. GLUE ALL PVC-TO-PVC CONNECTIONS.
5. PVC COMPRESSION FITTINGS FOR ALL TECHLINE-TO-TECHLINE CONNECTIONS.
6. PLANTER AREA - SEE PLANS.
7. EDGE OF PLANTER AREA.
8. PVC FITTINGS, TYPE AND SIZE AS REQUIRED. GLUE ALL PVC-TO-PVC CONNECTIONS. USE COMPRESSION FITTINGS FOR ALL PVC-TO-TECHLINE CONNECTIONS.
9. TIE DOWN STAKE, SPACING AT 2' O.C. MAX.
10. FINISH GRADE.

NOTES:
A. INSTALL LINES AT 3" BELOW SURFACE FOR TURF AREAS, 3" IN SHRUB AREAS.
B. PVC FITTINGS, TYPE AND SIZE AS REQUIRED.
C. GLUE ALL PVC-TO-PVC CONNECTIONS.
D. USE COMPRESSION FITTINGS FOR ALL PVC-TO-TECHLINE CONNECTIONS.
E. USE UVR PVC MATERIAL FOR ALL ON GRADE MATERIAL.
F. INSTALL NETFIM IN-LINE CHECK VALVE FOR ALL CONDITIONS WHERE SYSTEM ELEV. EXCEED 4 1/2'. NO LOW HEAD DRAINAGE ALLOWED.

E DRIPLINE BELOW GRADE
SCALE: 1 1/2" = 1'-0"

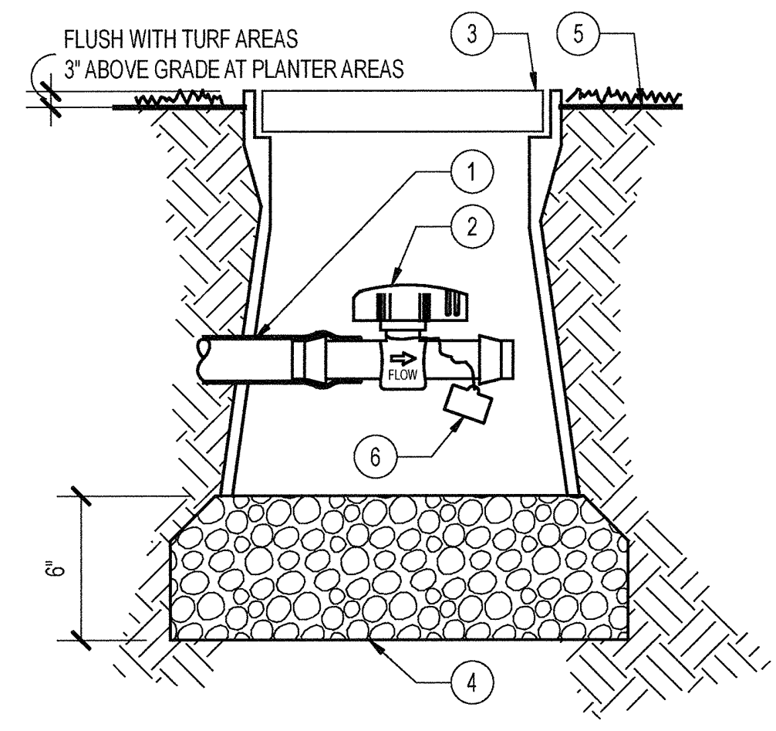


TRENCHING NOTES:
A. BELOW PAVED AREAS A MINIMUM OF 6" LAYER OF CLEAN EARTH SHALL BE INSTALLED ABOVE AND BELOW PIPING.
B. PROVIDE MINIMUM COVER OF 24" ON PRESSURE SUPPLY LINES 3" AND LARGER.
C. WHEN USING RECLAIMED WATER, MAINTAIN MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN POTABLE AND RECLAIMED PRESSURE LINES WHERE LINES CROSS, PROVIDE PVC SLEEVE FOR POTABLE LINE MINIMUM 5' EACH SIDE OF RECLAIMED WATER LINE.
D. BUNDLE WIRES WITH TAPE EVERY 10'.

SLEEVING NOTES:
A. ALL SLEEVES TO BE SCH. 40 PVC.
B. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.
C. ROUTE SLEEVING ALONG HANDICAP RAMP.
D. PIPING UNDER PAVEMENT SUSCEPTIBLE TO TRAFFIC LOADS REFER TO CITY STD. 24" MIN. TO 36" MAX. DEPTH TO TOP OF PIPE BELOW STRUCTURAL SECTION.

LEGEND:
1. NON-PRESSURE LATERAL LINE.
2. PRESSURE SUPPLY LINE.
3. CONTROL WIRES.
4. CLEAN BACKFILL - 90% COMPACTION REQUIRED.
5. 6" MIN. SAND BEDDING AND SHADDING.
6. 2" MIN. OF CLEAN EARTH.
7. NON-PRESSURE LATERAL LINE SLEEVE - SIZE TWICE DIAMETER OF NON-PRESSURE LATERAL LINE
8. PRESSURE SUPPLY LINE SLEEVE - SIZE TWICE DIAMETER OF PRESSURE SUPPLY LINE.
9. CONTROL WIRE SLEEVE - SIZE PER PLAN, INSTALL ADJACENT TO PRESSURE SUPPLY LINE.
10. FINISH GRADE.
11. HARDSCAPE PER CONSTRUCTION PLANS.

F TRENCHING & SLEEVING
SCALE: 1/4" = 1'-0"



LEGEND:
1. 1/2" DIAMETER DRIPLINE.
2. 1/2" NETAFIM TLSOV VALVE w/ COMPRESSION CONNECTION.
3. 6" DIAMETER PLASTIC VALVE BOX WITH GREEN LID.
4. 6" CRUSHED GRAVEL.
5. FINISH GRADE.
6. PLASTIC CHRISTY VALVE I.D. TAG.

G MANUAL FLUSH VALVE
SCALE: 1 1/2" = 1'-0"

INFORMATION SOURCE: EXISTING GAUGE (FIELD VERIFY) PH. NO.:
DATE: 01/12/17

VALVE NUMBER: 2 IRRIG. TYPE: Drip GPM: 2.0
STATIC WATER PRESSURE AT WATER METER: 75.0

SIZE	DESCRIPTION	Length	PSI loss/100'	GPM	Loss	LOSS	
1"	SERVICE LINE:	0	0.00			0.00	
1"	WATER METER:			2.0		0.40	
1"	PRESSURE REGULATOR:			2.0		4.00	
3"	GATE/BALL VALVE: QTY: 1			2.0		0.20	
2"	GATE/BALL VALVE: QTY: 2			2.0		0.40	
1"	REMOTE CONTROL VALVE:			2.0		0.20	
1"	MAINLINE:	70	0.18	2.0		0.13	
3/4"	LATERAL LINE:	205	0.44	2.0	0.90		
	LATERAL LINE:				0.00		
	LATERAL LINE:				0.00		
	LATERAL LINE:				0.00		
	TOTAL PVC LATERAL LINE LOSS:					0.90	
	PVC LATERAL LINE FITTING LOSS (10%):					0.09	
	TOTAL FRICTION LOSS:						6.3

ELEVATION AT METER: 0.0 HEAD ELEVATION: 8.0
ELEVATION DIFFERENCE: 4.0 x 0.433 1.73 ± 1.7
PSI REQUIRED AT VALVE: 40.0

TOTAL PSI REQUIRED: 40.0
REGULATED PRESSURE AT POC (IF APPLICABLE):
RESIDUAL PRESSURE (MUST BE POSITIVE): 35.0

H PRESSURE LOSS
SCALE: N / A

CONTROLLER WATER SCHEDULE - PLANT ESTABLISHMENT PERIOD

Valve	Equipment	I.E.	Plant Material	K.I.	P.R.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
						AVERAGE DAILY RUN TIMES (MINUTES)											
1	Drip	0.90	Trees - Mod	0.50	2.01	3	3	5	5	7	7	8	8	6	4	3	2
2	Drip	0.90	Shrubs - Mod	0.50	1.28	4	4	7	8	10	11	13	12	9	6	5	4
3	Drip	0.90	Trees - Mod	0.50	2.01	3	3	5	5	7	7	8	8	6	4	3	2
4	Drip	0.90	Shrubs - Mod	0.50	0.99	5	6	9	10	13	14	17	15	12	8	6	5
					Monthly Evapotranspiration Rate	***2.2***	***2.3***	***3.8***	***4.3***	***5.5***	***5.9***	***6.9***	***6.4***	***5.1***	***3.2***	***2.5***	***2.0***

Valve	Total Annual Minutes	Valve G.P.M.	Total Annual Gallons	Valve Area Sq.Ft.
1	1,665	2	3,330	96
2	2,601	2	5,202	150
3	1,665	2	3,330	96
4	3,382	2	6,763	195
Totals	**9,312**	**8**	**18,625**	**537**

RUN TIME FORMULA =2*(60*E.T.)/(P.R.*28 DAYS)*K.I.*(1/I.E.)

50.1 Annual Evapotranspiration Rate

NOTE:
1. The plant establishment water schedules are shown for guideline use only and are to be modified according to plant needs and as the weather changes.
2. It is based on the mothly evapotranspiration rates for **City of Monrovia, CA.**

CONTROLLER WATER SCHEDULE - ESTABLISHED LANDSCAPE

Valve	Equipment	I.E.	Plant Material	K.I.	P.R.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
						AVERAGE DAILY RUN TIMES (MINUTES)											
1	Drip	0.90	Trees - Mod	0.50	2.01	1	1	2	3	3	4	4	4	3	2	1	1
2	Drip	0.90	Shrubs - Mod	0.50	1.28	2	2	4	4	5	5	6	6	5	3	2	2
3	Drip	0.90	Trees - Mod	0.50	2.01	1	1	2	3	3	4	4	4	3	2	1	1
4	Drip	0.90	Shrubs - Mod	0.50	0.99	3	3	5	5	7	7	8	8	6	4	3	2
					Monthly Evapotranspiration Rate	***2.2***	***2.3***	***3.8***	***4.3***	***5.5***	***5.9***	***6.9***	***6.4***	***5.1***	***3.2***	***2.5***	***2.0***

Valve	Total Annual Minutes	Valve G.P.M.	Total Annual Gallons	Valve Area Sq.Ft.
1	832	2	1,665	96
2	1,301	2	2,601	150
3	832	2	1,665	96
4	1,691	2	3,382	195
Totals	**4,656**	**8**	**9,312**	**537**

RUN TIME FORMULA =(60*E.T.)/(P.R.*28 DAYS)*K.I.*(1/I.E.)

50.1 Annual Evapotranspiration Rate

NOTE:
1. The water schedules are shown for guideline use only and are to be modified accordingly as the weather changes with the assistance of a programmed smart controller.
2. It is based on the mothly evapotranspiration rates for City of Monrovia, CA.

I CONTROLLER CHART
SCALE: N / A

Project Information
Total square footage of Landscape Area (including Special Landscape Area) **LA=** 537
Total square footage of Special Landscape Area **SLA=** 0
Hist. ETo for the area **ETo=** 50.1

Maximum Annual Water Allocation (MAWA)
MAWA is calculated using the following formula:(Eto) (.62) [(0.45 x LA) + (0.55 x SLA)] gallons / yr
MAWA is calculated using the following formula:(Eto) (.62) [(0.45 x LA) + (0.55 x SLA)] / 7 ccf / yr

MAWA = **7,506** gallons / yr
10 ccf / yr

Estimated Applied Water Use (EAWU)
EAWU is calculated using the following formula: (Eto) (.62) [(PF x HA / IE)+ SLA] gallons / yr
EAWU is calculated using the following formula: (Eto) (.62) [(PF x HA / IE)+ SLA] / 748 ccf / yr

Hydrozone # 1: Shrubs-Mod, Drip
Plant Factor **PF=** 0.4
square footage of hydrozone **HA=** 345 *(SLA=0)*
hydrozone irrigation efficiency **IE=** 0.81
#1 EAWU = 5,292 gallons / yr
7 ccf / yr

Hydrozone # 2: Tree-Mixed, Bubbler
Plant Factor **PF=** 0.4
square footage of hydrozone **HA=** 192 *(SLA=0)*
hydrozone irrigation efficiency **IE=** 0.81
#2 EAWU = 2,945 gallons / yr
4 ccf / yr

Total EAWU = **8,237**
11

MAWA - EAWU = -731
-1

J WATER BUDGET
SCALE: N / A

811
Know what's **below.**
Call before you dig.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT
PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS
CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Richard W. Krumwiede 2834
Signature 7-31-18
Renewal Date 8-25-18
Date

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS EH SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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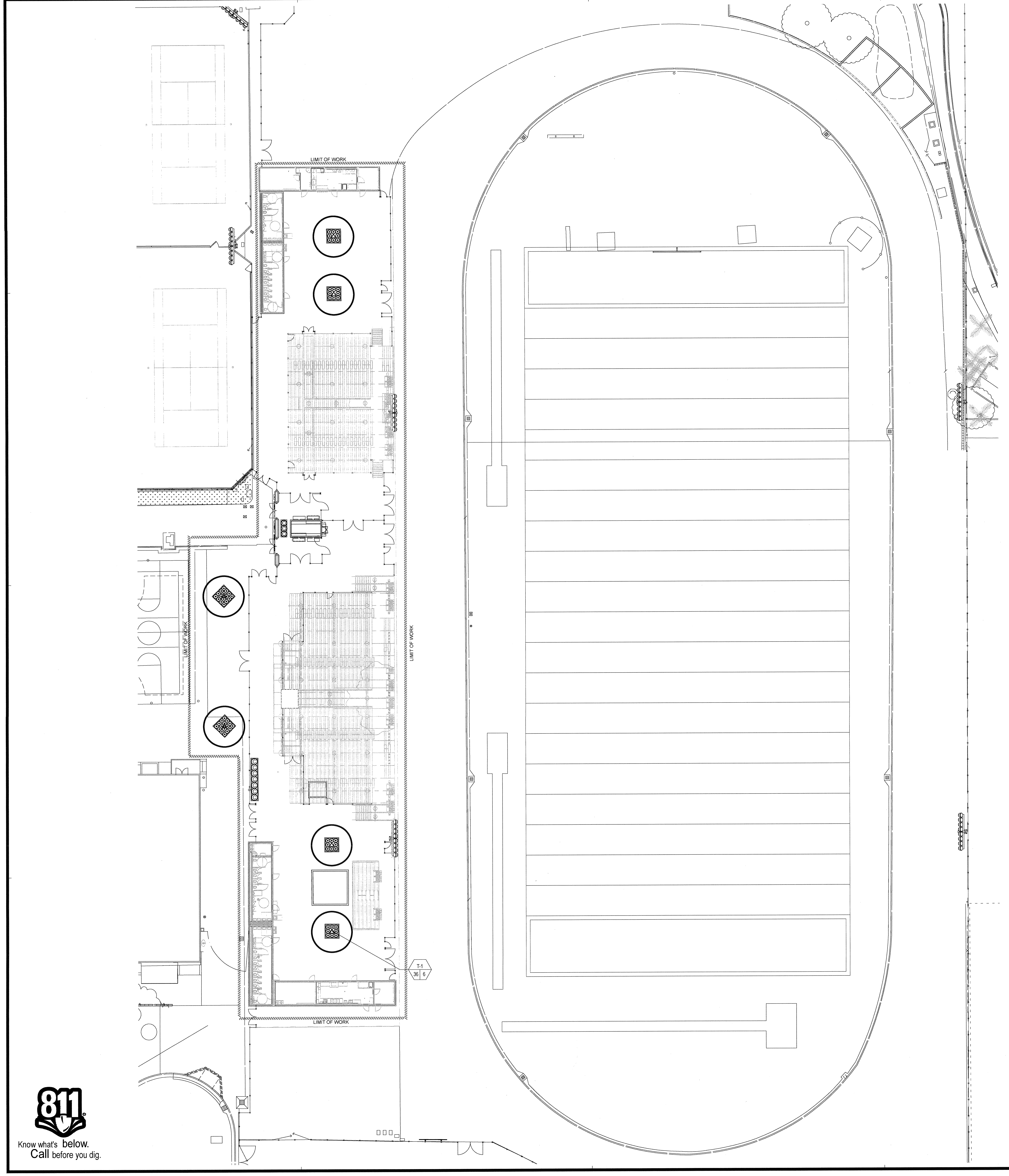
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE:
SHEET NUMBER: **L-1.1**
SHEET TITLE:

LANDSCAPE IRRIGATION DETAILS

ARCHITERRA
DESIGN GROUP
LANDSCAPE ARCHITECTURE AND PLANNING

10221-A Trademark Street
Rancho Cucamonga, CA 91730
PH. (909) 484-2800
Fax (909) 484-2802

CLARB CERTIFIED LANDSCAPE ARCHITECT
Richard Krumwiede
CA Lic. # 2834
AZ LIC. # 29115
NV LIC. # 446



811
Know what's **below.**
Call before you dig.

PLANTING NOTES:

1. SHRUB LAYOUT AS SHOWN ON PLAN INDICATES "SHRUB MASSES." QUANTITIES ARE AS SHOWN ON PLAN, ON-CENTER SPACING AS SHOWN ON LEGEND. CONTRACTOR TO VERIFY QUANTITIES BASED ON SPACING AND ADD ADDITIONAL PLANT MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) REQUIRED TO MAINTAIN DESIGN INTENT DUE TO EXISTING SITE CONDITIONS NOT ANTICIPATED DURING DESIGN. LAYOUT/SPACING WILL EITHER BE TRIANGULAR OR LINEAR AS SHOWN ON PLAN OR LEGEND. LANDSCAPE ARCHITECT TO APPROVE FINAL LAYOUT IN FIELD PRIOR TO INSTALLATION.
2. CONTRACTORS SHALL NOTIFY THE LANDSCAPE ARCHITECT OF SITE CONDITIONS WHICH PREVENT INSTALLATION PER PLANS AND SPECIFICATIONS.
3. CONTRACTOR SHALL BE LIABLE FOR REMOVING AND RE-INSTALLING IRRIGATION EQUIPMENT, AND REPLANTING AREAS WHICH ARE NOT INSTALLED PER PLAN AND SPECIFICATIONS.
4. REFER TO PLANTING SPECIFICATIONS FOR INSPECTION/CERTIFICATION SCHEDULE.
5. IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL PRIOR TO INSTALLATION OF PLANT MATERIALS.
6. TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST NO. 1 HAS BEEN APPROVED. (SEE SPECIFICATIONS).
7. PLACE TREES BETWEEN IRRIGATION HEADS WHEREVER POSSIBLE.
8. LANDSCAPE CONTRACTOR SHALL TAKE FOUR (4) SOIL SAMPLES FROM THE SITE AT LOCATIONS APPROVED BY THE LANDSCAPE ARCHITECT. THE SAMPLES SHALL BE TAKEN AT A DEPTH OF 12' AFTER ROUGH GRADING AND SUBMITTED TO AN APPROVED SOIL AND PLANT LABORATORY FOR AGRICULTURAL SUITABILITY TESTING. THE COST OF TESTING SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
9. THE RECOMMENDATIONS OF THE SOIL REPORT SHALL SUPERSEDE THE SOIL PREPARATION AND BACKFILL MIX SPECIFICATIONS (SEE SPECIFICATIONS). THE CONTRACTOR SHALL SUBMIT A COPY OF ALL SOILS REPORTS TO THE LANDSCAPE ARCHITECT PRIOR TO MODIFICATION OF THESE SPECIFICATIONS.
10. SHREDDED MULCH INSTALLATION: INSTALL SHREDDED MULCH IN ALL SHRUB AND GROUNDCOVER AREAS PER SPECIFICATIONS UNLESS OTHERWISE INDICATED ON PLANS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF ANY DAMAGED LANDSCAPE AREAS BEYOND THE LIMIT OF WORK, INCLUDING REPAIRING ANY IRRIGATION LINES/SPRINKLER HEADS, THAT IS A DIRECT RESULT OF THE LANDSCAPE CONSTRUCTION AND/OR HIS SUB-CONTRACTOR. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATION OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
12. WHEREVER GROUNDCOVER AREAS ARE ADJACENT TO TURF INSTALL CONCRETE MOW STRIP OR HEADER BOARD AS INDICATED ON DRAWINGS.
13. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL GRADES AND FLOW LINES AS SHOWN ON THE GRADING PLAN. WHERE SOD IS TO BE INSTALLED ON A SWALE,THE FINISH GRADE MUST BE ADJUSTED SO THE SOD DOES NOT RESTRICT THE FLOW.

PLANTING LEGEND:

SYMBOL / CALLOUT		BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS	WATER USE	QTY
TREES:								
◯	T-1	Platanus acerfolia 'Bloodgood'	London Plane Tree	36" Box	Per Plan	Standard	M	6
SHRUBS:								
⊙		Muhlenbergia dubia	Pine Muhly	5 Gal.	24" O.C.	---	L	64
©		Callistemon 'Little John'	Dwarf Bottle Brush	5 Gal.	36" O.C.	---	L	10

PHOTO SUBMITTAL NOTE:
ALL PLANT MATERIAL, INCLUDING TREES, SHRUBS, AND VINES, SHALL BE INSPECTED AND APPROVED BY LANDSCAPE ARCHITECT, VIA PHOTO SUBMITTALS, PRIOR TO DELIVERY TO SITE. PHOTO SUBMITTALS SHALL INCLUDE NURSERY SUPPLIER AND DATE OF PHOTOS. ANY MATERIAL DELIVERED TO SITE WITHOUT APPROVAL IS SUBJECT TO REJECTION. PHOTO SUBMITTALS SHALL BE SENT TO LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO SHIPMENT OF MATERIAL. SUBMITTALS SHOULD INCLUDE SOME TYPE OF SCALE REFERENCE IN PHOTO (I.E. PERSON, MEASURING TAPE, ETC.). TREES SHALL BE NOTED WITH HEIGHT (FROM FINISH GRADE IN CONTAINER) AND CANOPY HEAD SIZE. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF SCHEDULED NURSERY DELIVERY TIMES A MINIMUM OF 24 HOURS PRIOR TO SHIPMENT. REFER TO PLANTING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING QUALITY OF NURSERY STOCK.

MULCH NOTE:
CONTRACTOR SHALL INSTALL A 3" LAYER OF CHIPPED MULCH IN ALL SHRUB AREAS (1 1/2 " IN ALL GROUNDCOVER AREAS). MULCH SHALL BE 'WALK ON CHIPS' AS MADE BY EARTHWORKS, RIVERSIDE, CA, CONTACT LEFO PHORORO (951) 782-0260. SUBMIT SAMPLE OF ANY ALTERNATIVE MATERIAL PRIOR TO PURCHASE AND/OR PLACEMENT FOR OWNER'S REPRESENTATIVE'S APPROVAL.

PLANT SPACING NOTE:
SHRUB LAYOUT AS SHOWN ON PLAN INDICATES "SHRUB MASSES." QUANTITIES ARE AS SHOWN ON PLAN, ON-CENTER SPACING AS SHOWN ON LEGEND. CONTRACTOR TO VERIFY QUANTITIES BASED ON SPACING AND ADD ADDITIONAL PLANT MATERIAL, AT NO ADDITIONAL COST TO THE OWNER, AS REQUIRED TO MAINTAIN DESIGN INTENT DUE TO EXISTING SITE CONDITIONS NOT ANTICIPATED DURING DESIGN. LAYOUT/SPACING WILL EITHER BE TRIANGULAR OR LINEAR AS INDICATED ON PLAN OR LEGEND. LANDSCAPE ARCHITECT IS TO APPROVE FINAL LAYOUT IN FIELD PRIOR TO INSTALLATION.

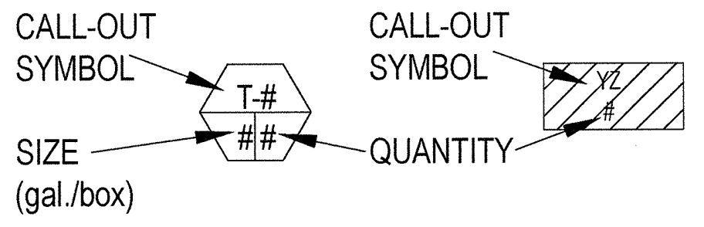
LINEAR ROOT BARRIER NOTE:
ALL TREES PLANTED WITHIN 5' OF ANY HARDSCAPE WILL REQUIRE LINEAR ROOT BARRIERS, TO BE PLACED ALONG CURBS, WALKS, AND WALLS. SEE **DETAIL X, SHEET L-X**, FOR LINEAR ROOT BARRIER PLACEMENT.

HYDROZONE LEGEND:

REFER TO IRRIGATION PLAN AND DETAIL SHEET FOR CORRESPONDING INFORMATION.

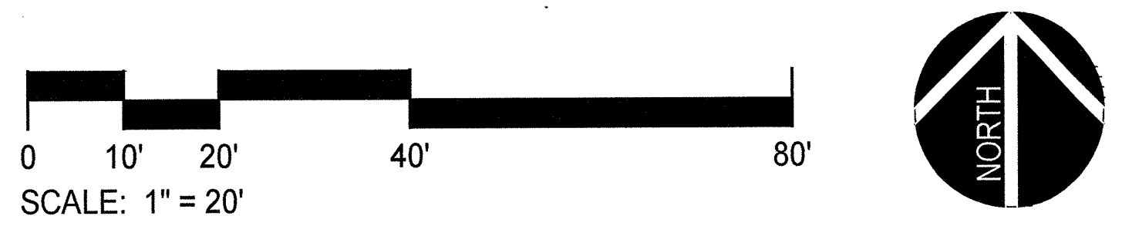
HYDROZONE 1 (*HZ1*):
MODERATE SHRUB PLANTER AREAS, DRIP IRRIGATION w/ SUPPLIMENTAL IRRIGATION TO TREES.

SYMBOL LEGEND:



PLAN CROSS REFERENCES:

FOR NOTES AND LEGENDS, SEE THIS SHEET
FOR PLANTING DETAILS, SEE SHEET L-2.1
FOR PLANTING SPECIFICATIONS, SEE BOOK SPECS
FOR CORRESPONDING IRRIGATION PLAN SEE SHEET L-1.0



SCALE: 1" = 20'

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Richard W. Krumwiede 2834
Signature
7-31-18
Renewal Date
8-25-18
Date

A# 03-117117
AC N.N. FLS EB SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE:

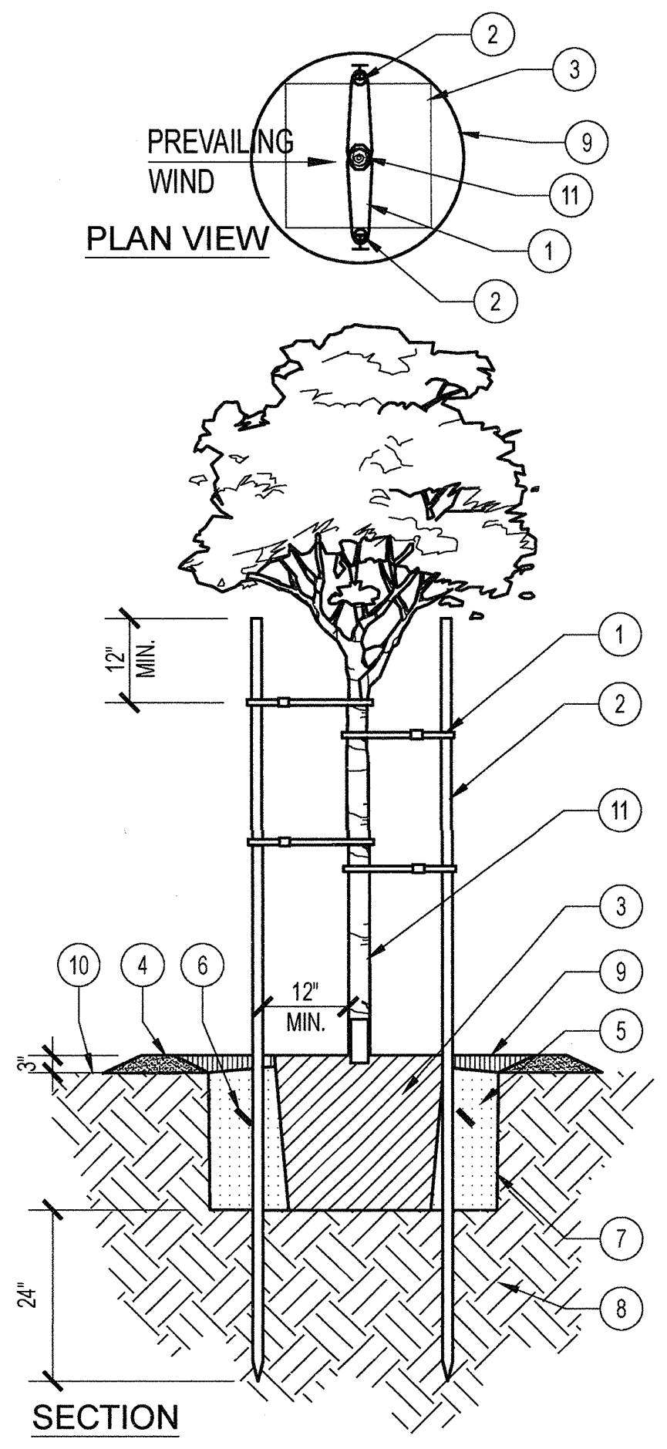
SHEET NUMBER: **L-2.0**
SHEET TITLE:

PLANTING PLAN

ARCHITERRA
DESIGN GROUP
LANDSCAPE ARCHITECTURE AND PLANNING

10221-A Trademark Street
Rancho Cucamonga, CA 91730
PH. (909) 484-2800
Fax (909) 484-2802

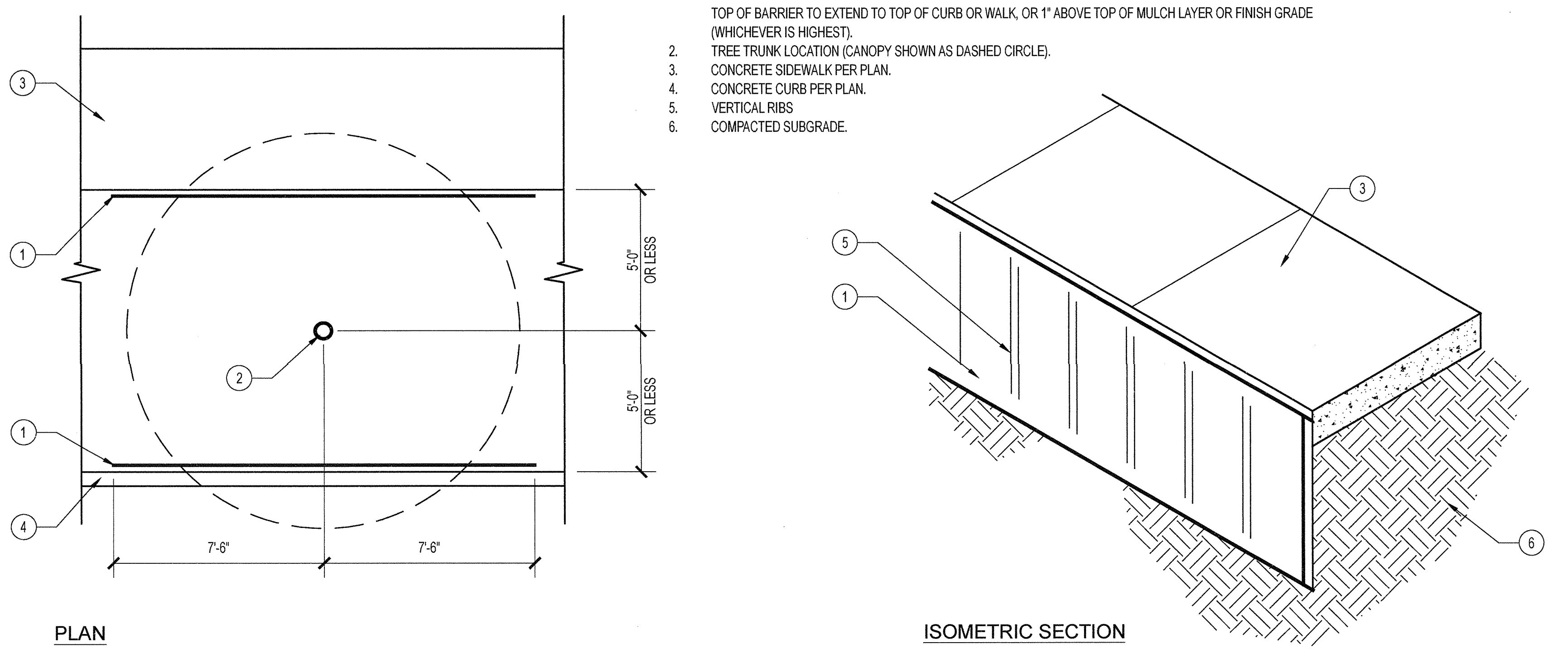
Richard Krumwiede
CA Lic. # 2834
AZ LIC. # 29115
NV LIC. # 446



LEGEND:
1. 'CINCH TIE' AS MANUFACTURED BY V.I.T. CO. (2) PER POLE. SEE SPECIFICATIONS. NAIL TO TREE STAKE w/ 1" GALV. ROOFING NAIL (4) REQUIRED.
2. 2" DIA. x 10' LODGEPOLE PINE TREE STAKE, (2) PER TREE. LOCATE OUTSIDE ROOTBALL.
3. CONTAINER ROOTBALL. SET 3" ABOVE F.G.
4. TEMPORARY 3" BERM TO FORM DEPRESSED WATERING BASIN. ALL SIDES.
5. PREPARED BACKFILL MIX PER SOIL REPORT RECOMMENDATIONS.
6. FERTILIZER TABLETS AND QUANTITY PER PLANTING SPECIFICATIONS.
7. PLANT PIT TO BE TWICE ROOTBALL WIDTH.
8. UNDISTURBED NATIVE SOIL.
9. 3" MULCH LAYER. 3'-0" DIA. IN TURF AREAS
10. FINISH GRADE.
11. TREE PER PLANTING PLAN.

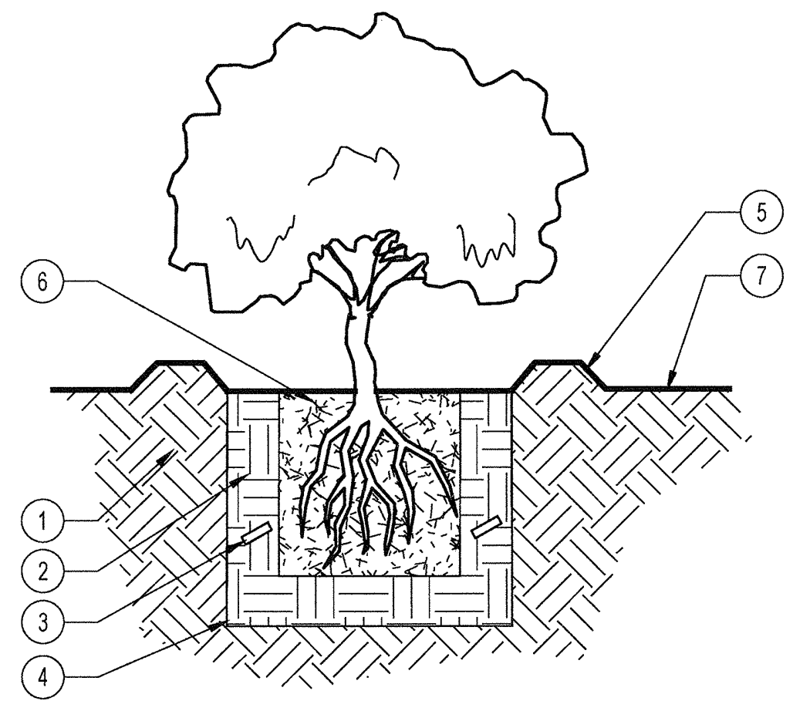
NOTES:
A. UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS AT EDGE OF ROOT BALL w/ WATER FROM HOSE. DO NOT CRACK ROOT BALL.
B. PLACE FERTILIZER TABS IN PLANT PIT PRIOR TO PLANTING FOR OBSERVATION PURPOSES.
C. SET STAKES PERPENDICULAR TO PREVAILING WINDS.

A DOUBLE STAKE TREE
SCALE: NOT TO SCALE



LEGEND:
1. 18" DEEP LINEAR-STYLE ROOT BARRIER AS MADE BY CENTURY ROOT BARRIER, MODEL #CP18-2 (OR APPROVED EQUAL). PLACE BARRIER, IN TRENCH w/ THE VERTICAL RIBS FACING TOWARD TREE AND ALIGN IN A STRAIGHT FASHION. USE HARDSCAPE EDGE AS A GUIDE AND BACKFILL AGAINST THE BARRIER TO PROVIDE A CLEAN FIT. TOP OF BARRIER TO EXTEND TO TOP OF CURB OR WALK, OR 1" ABOVE TOP OF MULCH LAYER OR FINISH GRADE (WHICHEVER IS HIGHEST).
2. TREE TRUNK LOCATION (CANOPY SHOWN AS DASHED CIRCLE).
3. CONCRETE SIDEWALK PER PLAN.
4. CONCRETE CURB PER PLAN.
5. VERTICAL RIBS
6. COMPACTED SUBGRADE.

B LINEAR ROOT BARRIER
SCALE: 1/4" = 1'-0"



LEGEND:
1. UNDISTURBED NATIVE SOIL.
2. BACKFILL MIX PER PLANTING SPECIFICATIONS.
3. FERTILIZER TABLETS PER PLANTING SPECS.
4. PLANT PIT TWICE ROOTBALL WIDTH AND 6" BELOW BOTTOM OF ROOTBALL.
5. 3" BERM TO FORM WATERING BASIN.
6. ROOTBALL.
7. FINISH GRADE.

NOTES:
A. UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS AT EDGE OF ROOTBALL w/ WATER FROM HOSE. DO NOT CRACK BALL OF ROOTS.
B. PLACE FERTILIZER TABS IN PLANT CONTAINER PRIOR TO PLANTING FOR OBSERVATION PURPOSES.

C SHRUB PLANTING
SCALE: NOT TO SCALE

811
Know what's below.
Call before you dig.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED LANDSCAPE ARCHITECT
Richard W. Krumwiede 2834
Signature
7-31-18
Renewal Date
8-25-18
Date
STATE OF CALIFORNIA

A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
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SHEET NUMBER: L-2.1
SHEET TITLE:

LANDSCAPE PLANTING DETAILS

ARCHITERRA
DESIGN GROUP
LANDSCAPE ARCHITECTURE AND PLANNING

10221-A Trademark Street
Rancho Cucamonga, CA 91730
PH. (909) 484-2800
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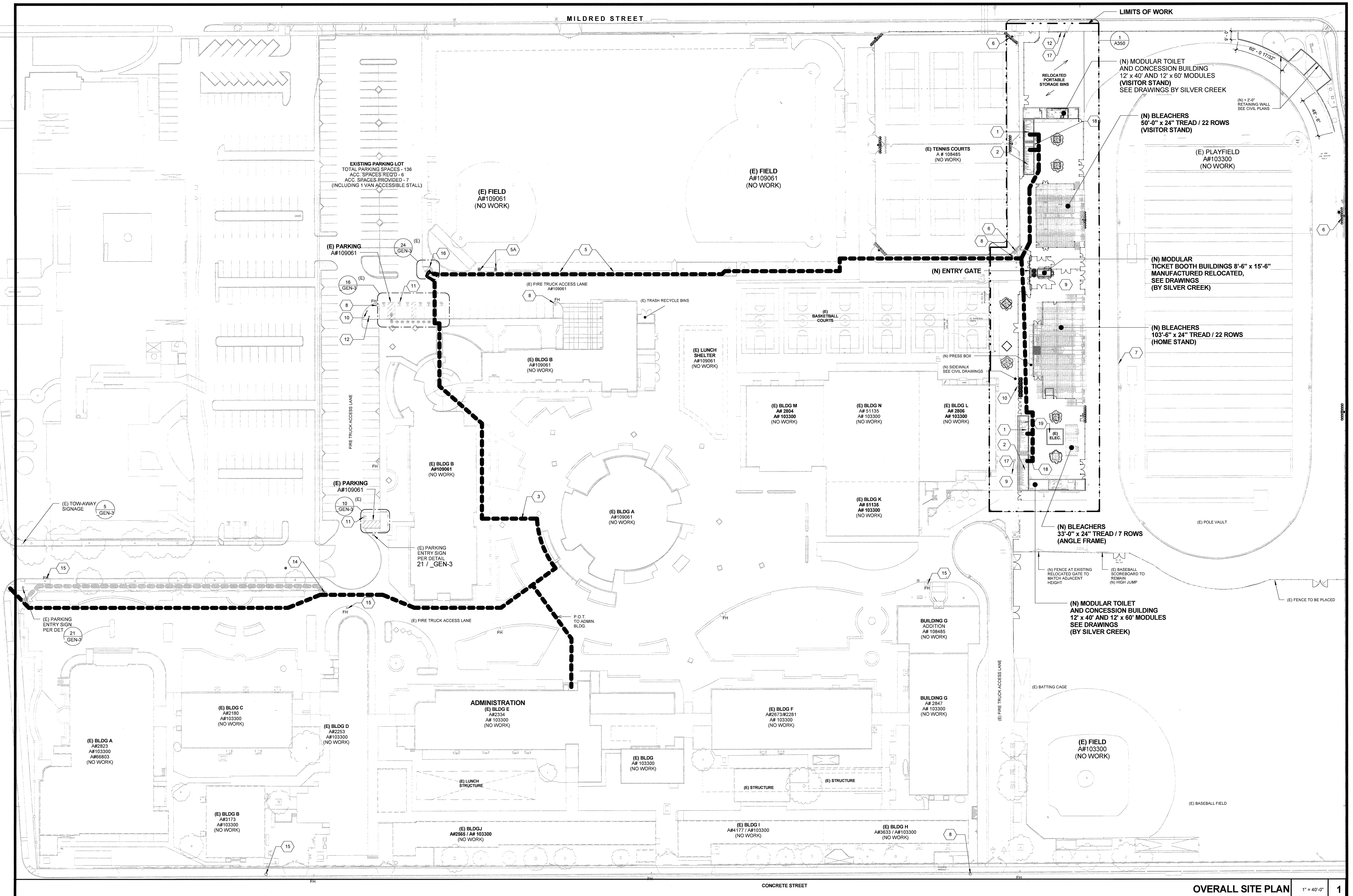

OVERALL SITE PLAN 1" = 40'-0" 1

SITE KEYNOTES

1	(N) MEN RESTROOM SEE ENLARGED PLAN ON SHEET A500
2	(N) WOMEN RESTROOM SEE ENLARGED PLAN ON SHEET A500
3	(E) PATH OF TRAVEL CONTINUATION TO PROJECT SITE A#109061.
4	(E) PATH OF TRAVEL TO ADMININ. BLDG
5	(E) LIGHT POLE TO REMAIN.
5A	(N) LIGHT POLE DET. 25 / GEN-3
6	(E) MUSCO FIELD LIGHT AND CELL TOWER TO REMAIN
7	(E) CONCRETE TRACK CURB WITH 6" WIDE DRAINAGE NOTCHES AT 10'± O.C. AND 14" CONCRETE GUTTER
8	(N) ACCESSIBLE DIRECTIONAL SIGN, SEE DET. 22 / GEN-3
9	(N) CONCRETE PAVEMENT, SEE CIVIL AND LANDSCAPE DRAWINGS
10	(N) SIDEWALK PER CIVIL DRAWINGS.
11	(E) ACCESSIBLE PARKING SPACES
12	(N) GATE ACCESS SIGNAGE 14 / GEN-3
13	(E) TOW-AWAY SIGNAGE 5 / GEN-3
14	(E) CONNECTION OF PATH OF TRAVEL TO PUBLIC RIGHT-OF-WAY
15	(E) FIRE HYDRANT
16	(E) RAMP AT CURB, DET. 24 / GEN-3
17	(E) 20' WIDE 3' TALL VEHICLE GATE TO REMAIN.
18	(N) ACCESSIBLE DRINKING FOUNTAIN , SEE DET. 16 / GEN-4
19	(E) ELECTRICAL ROOM TO REMAIN. STORAGE AREA TO BE DEMOLISHED.

SITE NOTES

1. "**Design Professional in General Responsible Charge Statement:** The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provisions for **path of travel requirements for alterations, additions and structural repairs**. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document."

— • • —	LIMITS OF WORK FOR THIS PROJECT
— — —	EXIT DISCHARGE PATH OF TRAVEL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA

Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# **03-117117**
AC N.V. FLS BV SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED:	01-23-2017
PROJECT NO:	2014-40163
SCALE:	As indicated
SHEET NUMBER:	**A010**
SHEET TITLE:	

CAMPUS PLAN

SVA
ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

DSA **810**

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: EL MONTE UNION HIGH SCHOOL DISTRICT
Project Name/School: EL MONTE HIGH SCHOOL BLEACHERS
Project Address: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name:
LFA Reviewer Name: APPROVED Title:
Email: Telephone Number:

I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.
LFA Reviewer's Signature: Date: 3-23-16

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)
"NA" = Not applicable to the project "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means. Signature of School District Official: ____ Date: ____ Print the School District Official's Name:			X	
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 05-12-14) Page 1 of 1
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA - FIRE AUTHO. REVIEW

COUNTY OF LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION DIVISION

FORM 196
Rev. 04/03

Fire Prevention Engineering
5823 Rickenbacker Road
Commerce, CA 90040
Telephone (323) 890-4125 Fax (323) 890-4129

Information on Fire Flow Availability for Building Permit

For All Buildings Other Than Single Family Dwellings (R-3)

INSTRUCTIONS:

Complete parts I, II (A) when:
Verifying fire flow, fire hydrant location and fire hydrant size.

Complete parts I, II (A), & II (B) when:
For buildings equipped with fire sprinkler systems, and/or private on-site fire hydrants.

PROJECT INFORMATION
(To Be Completed By Applicant)

PART I

Building Address: 3048 Tyler Ave,
City or Area: El Monte, CA, 91731
Nearest Cross Street: Mildred Street
Distance of Nearest Cross Street: 50 feet
Applicant: SVA ARCHITECTS Telephone: (949) 809 - 3380
Address: 3 Macarthur Place, Ste 850
City: Santa Ana, CA 92707
Occupancy (Use of Building): E (Educational) Sprinklered: Yes ☐ No ☒
Type of Construction: Type V - non rated
Square Footage: 34,400 S.F. Number of Stories:
Present Zoning: Public Shcool K-12

Applicant's Signature
Date 10.25.2015

PART II-A **INFORMATION ON FIRE FLOW AVAILABILITY**
(To be completed by Water Purveyor)

LACoFD 1/21/16
INSpector 34A
Angel Wolfierre
562 696-3915

Location North side of Building G
Hydrant Number
Distance from Nearest Property Line 300' Size of Hydrant 6" Size of Water main
Static PSI 60 psi Residual PSI 45 psi Orifice size 2.5" Pitot 35 psi
Fire Flow at 20 PSI 1680 Duration 2 min Flow Test Date / Time 1/21/16 9:10am

Location Mildred st and Meeker Ave
Hydrant Number
Distance from Nearest Property Line on street Size of Hydrant 6" Size of Water main
Static PSI 60 psi Residual PSI 40 psi Orifice size 2.5" Pitot 32 psi
Fire Flow at 20 PSI 1380 Duration 2 min Flow Test Date / Time 1/21/16 9:20am

Location
Hydrant Number
Distance from Nearest Property Line Size of Hydrant Size of Water main
Static PSI Residual PSI Orifice size Pitot
Fire Flow at 20 PSI Duration Flow Test Date / Time

PART II-B **SPRINKLERED BUILDINGS/PRIVATE FIRE HYDRANTS ONLY**

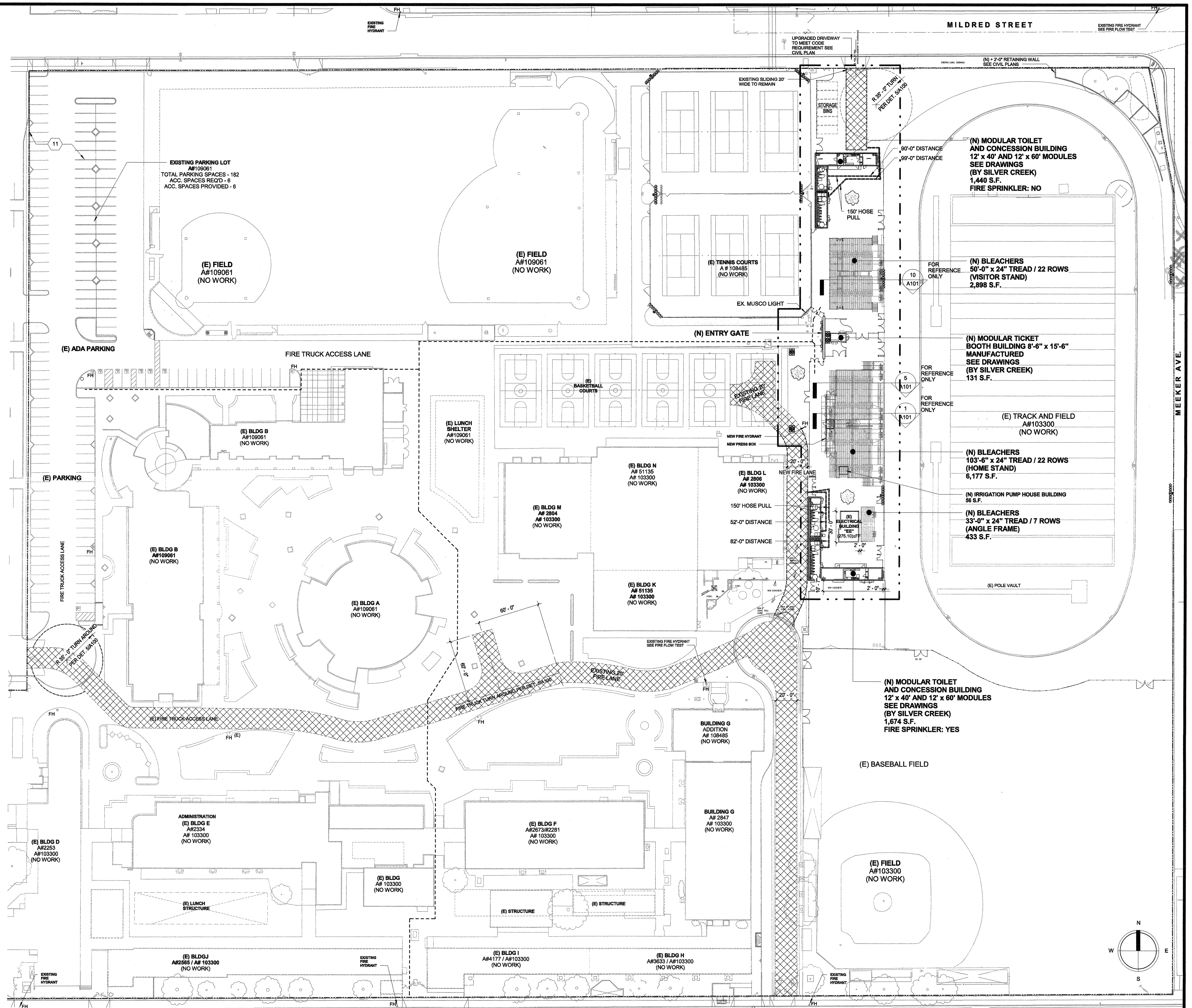
Detector Location (check one) ☐ Above Grade ☐ Below Grade ☐ Either
Backflow Protection Required (Fire Sprinklers/Private Hydrant) (check one) ☐ Yes ☐ No
Minimum Type of Protection Required (check one) ☐ Single Check Detector Assembly
☐ Double Check Detector Assembly ☐ Reduced Pressure Principle Detector Assembly

Water Purveyor ~~10.01.2015~~ Signature ~~City Of El Monte~~
Date Title

This Information is Considered Valid for Twelve Months

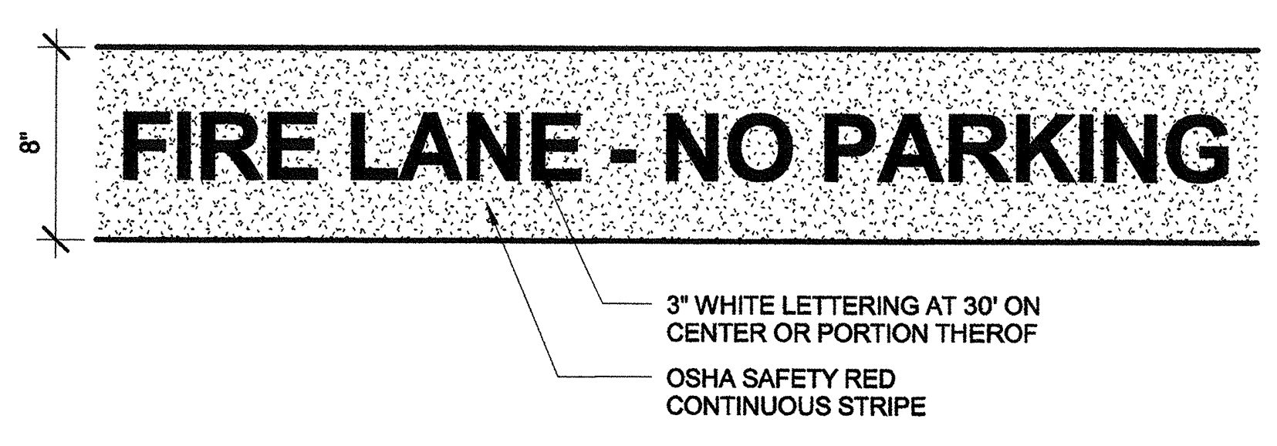
Fire Department approval of building plans shall be required prior to the issuance of a Building Permit by the jurisdictional Building Department. Any deficiencies in water systems will need to be resolved by the Fire Prevention Division only prior to this department's approval of building plans.

FIRE FLOW TEST

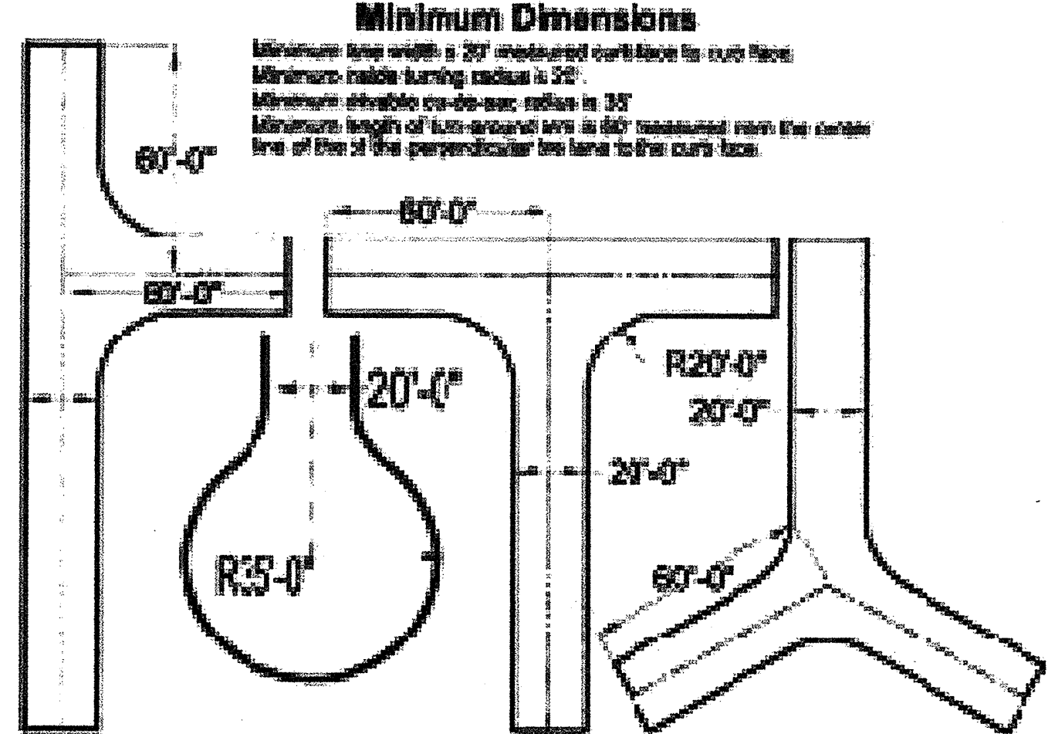

MILDRED STREET
EXISTING FIRE HYDRANT
EXISTING FIRE HYDRANT SEE FIRE FLOW TEST
UPGRADED DRIVEWAY TO MEET CODE REQUIREMENT SEE CIVIL PLAN
(N) + 2'-0" RETAINING WALL SEE CIVIL PLANS
EXISTING CONC. SIDEWALK
EXISTING SLIDING 20' WIDE TO REMAIN
STORAGE BINS
R 35' - 0" TURN PER DET. 5/A100
90'-0" DISTANCE
99'-0" DISTANCE
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES SEE DRAWINGS (BY SILVER CREEK) 1,440 S.F. FIRE SPRINKLER: NO
150' HOSE PULL
(N) BLEACHERS 50'-0" x 24" TREAD / 22 ROWS (VISITOR STAND) 2,898 S.F.
FOR REFERENCE ONLY
10 A101
EX. MUSCO LIGHT
(N) ENTRY GATE
(N) MODULAR TICKET BOOTH BUILDING 8'-6" x 15'-6" MANUFACTURED SEE DRAWINGS (BY SILVER CREEK) 131 S.F.
5 A101
1 A101
(E) TRACK AND FIELD A#103300 (NO WORK)
(N) BLEACHERS 103'-6" x 24" TREAD / 22 ROWS (HOME STAND) 6,177 S.F.
(N) IRRIGATION PUMP HOUSE BUILDING 56 S.F.
(N) BLEACHERS 33'-0" x 24" TREAD / 7 ROWS (ANGLE FRAME) 433 S.F.
(E) ELECTRICAL BUILDING "EE" (275.10)±FF
(E) POLE VAULT
MEEKER AVE.
EXISTING PARKING LOT A#109061 TOTAL PARKING SPACES - 182 ACC. SPACES REQ'D - 6 ACC. SPACES PROVIDED - 6
(E) FIELD A#109061 (NO WORK)
(E) FIELD A#109061 (NO WORK)
(E) TENNIS COURTS A # 108485 (NO WORK)
(E) ADA PARKING
FIRE TRUCK ACCESS LANE
(E) PARKING
(E) BASKETBALL COURTS
EXISTING 20' FIRE LANE
(E) LUNCH SHELTER A#109061 (NO WORK)
NEW FIRE HYDRANT
NEW PRESS BOX
20' - 0"
NEW FIRE LANE
(E) BLDG B A#109061 (NO WORK)
(E) BLDG B A#109061 (NO WORK)
(E) BLDG N A# 51135 A# 103300 (NO WORK)
(E) BLDG M A# 2804 A# 103300 (NO WORK)
(E) BLDG L A# 2806 A# 103300 (NO WORK)
150' HOSE PULL
52'-0" DISTANCE
82'-0" DISTANCE
(E) BLDG A A#109061 (NO WORK)
(E) BLDG K A# 51135 A# 103300 (NO WORK)
60' - 0"
EXISTING FIRE HYDRANT SEE FIRE FLOW TEST
R 35' - 0" TURN AROUND PER DET. 5/A100
FIRE TRUCK TURN AROUND PER DET. 5/A100
EXISTING 20' FIRE LANE
(E) FIRE TRUCK ACCESS LANE
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES SEE DRAWINGS (BY SILVER CREEK) 1,674 S.F. FIRE SPRINKLER: YES
BUILDING G ADDITION A# 108485 (NO WORK)
(E) BASEBALL FIELD
FH
(E) BLDG D A#2253 A# 103300 (NO WORK)
ADMINISTRATION (E) BLDG E A#2334 A# 103300 (NO WORK)
(E) BLDG F A#2673/#2281 A# 103300 (NO WORK)
BUILDING G A# 2847 A# 103300 (NO WORK)
(E) FIELD A#103300 (NO WORK)
(E) BLDG A# 103300 (NO WORK)
(E) LUNCH STRUCTURE
(E) STRUCTURE
(E) STRUCTURE
(E) BLDGJ A#2565 / A# 103300 (NO WORK)
(E) BLDG I A#4177 / A#103300 (NO WORK)
(E) BLDG H A#3633 / A#103300 (NO WORK)
EXISTING FIRE HYDRANT
CONCRETE DRIVEWAY
N
W
E
S

CONCRETE STREET

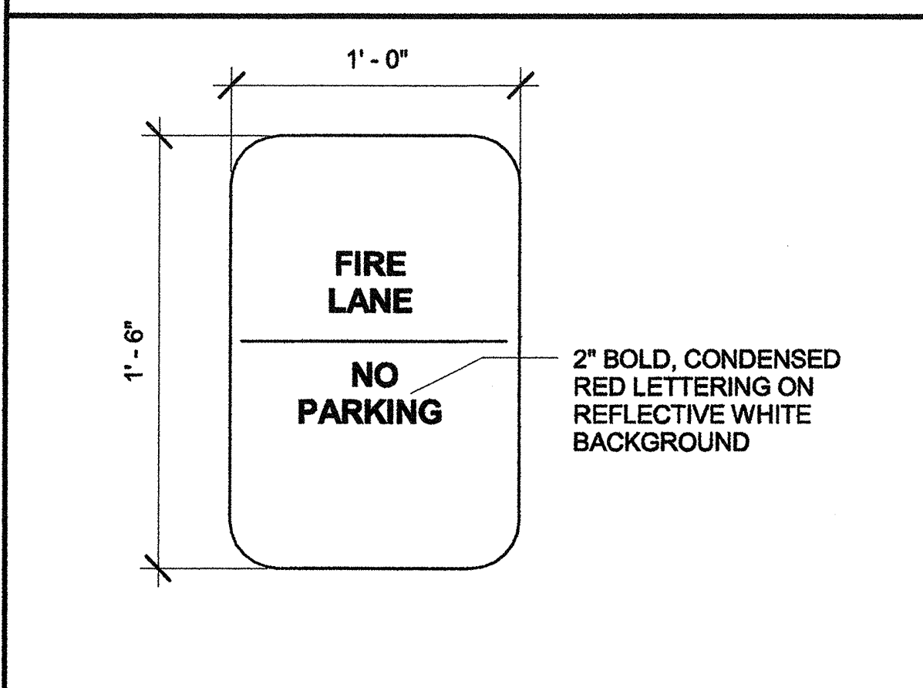
FIRE MASHALL SITE PLAN 1" = 40'-0" **4**


8"
FIRE LANE - NO PARKING
3" WHITE LETTERING AT 30' ON CENTER OR PORTION THEROF
OSHA SAFETY RED CONTINUOUS STRIPE

PAINTED FIRE LANE 1 1/2" = 1'-0" **6**



TURN AROUND 12" = 1'-0" **5**


1' - 0"
1' - 6"
FIRE LANE
NO PARKING
2" BOLD, CONDENSED RED LETTERING ON REFLECTIVE WHITE BACKGROUND

FIRE LANE GATE SIGN 1 1/2" = 1'-0" **3**

1. FIRE DEPT. FINAL INSPECTIONS REQUIRED. SCHEDULE ALL INSPECTIONS 24 HRS. IN ADVANCE.
2. EXTINGUISHER LOCATIONS AND RATINGS TO BE DETERMINED BY THE FIRE INSPECTOR.
3. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GASES AND HAZARDOUS CHEMICALS SHALL COMPLY WITH I.F.C. REGULATIONS.
4. DRAPES AND OTHER DECORATIVE MATERIALS SHALL BE FLAME RETARDANT. CERTIFICATION THEREOF SHALL BE PROVIDED. EXITS, EXIT LIGHTS, FIRE ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED BY DECORATIVE MATERIALS.
5. INTERIOR FINISH SHALL CONFORM WITH TITLE 19, CAC, SEC. 2-4204.
6. EXIT DOOR SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
7. "EXIT" SIGN SHALL BE IN BLOCK LETTERS MINIMUM 6 INCHES HIGH. LUMINANCE ON FACE OF SIGN SHALL BE 50 LUX.
8. ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2-1/2", BRASS ORBRONZE, CONFIRMING TO AMRICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 8.
9. EXTEND EXISTING FIRE/LIFE SAFETY SYSTEM AS REQUIRED TO SERVICE THIS SUBJECT TENANT IMPROVEMENT.
10. FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE W/ SECTION 717 AT THE FOLLOWING LOCATIONS:
    - A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.
    - B. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10- FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
    - C. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS.
    - D. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
    - E. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.
11. ALL REQUIRED FIRE HYDRANTS SHALL BE INSTALLED, TESTED AND ACCEPTED PRIOR TO BEGINNING CONSTRUCTION. FIRE CODE 501.4
12. ALL ON-SITE FIRE HYDRANTS SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO BUILDING OCCUPANCY. FIRE CODE 901.5.1.

LOS ANGELES COUNTY FIRE MARSHAL NOTES

▨	EXISTNG 20'-0" FIRE DEPARTMENT VEHICLE ACCESS
▨	NEW PROPOSED 20'-0" FIRE DEPARTMENT VEHICLE ACCESS
⊕ FH	FIRE HYDRANT
▬ ▬ ▬	HOSE PULL LINE
● ● ●	5'-0" MINIMUM CLEARANCE FIRE FIGHTER WALKWAY ACCESS ROUTES / PATH OF TRAVEL PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT SLEEPER THAN 1:2 EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL,AND IT IS AT LEAST 48" WIDE, SURFACE SHALL BE STABLE, FIRM, AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE SLEEPER THAN 1:48 AND RUNING SLOPE SHALL NOT BE SLEEPER THAN 1:20 UNLESS OTHERWISE INDICATED(SECTION 11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SECTION 11B-307.4) AND PROTUDING OBJECTS GREATER THAN 4" PROJECTION OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH. (CBC *IIB-307.2)* ARCHITECT TO VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.

KEY NOTES AND LEGEND

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2017

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117-117
AC N.N. FLS ED SS G
DATE 2/3/2017

REVISIONS:

	DESCRIPTION	DATE
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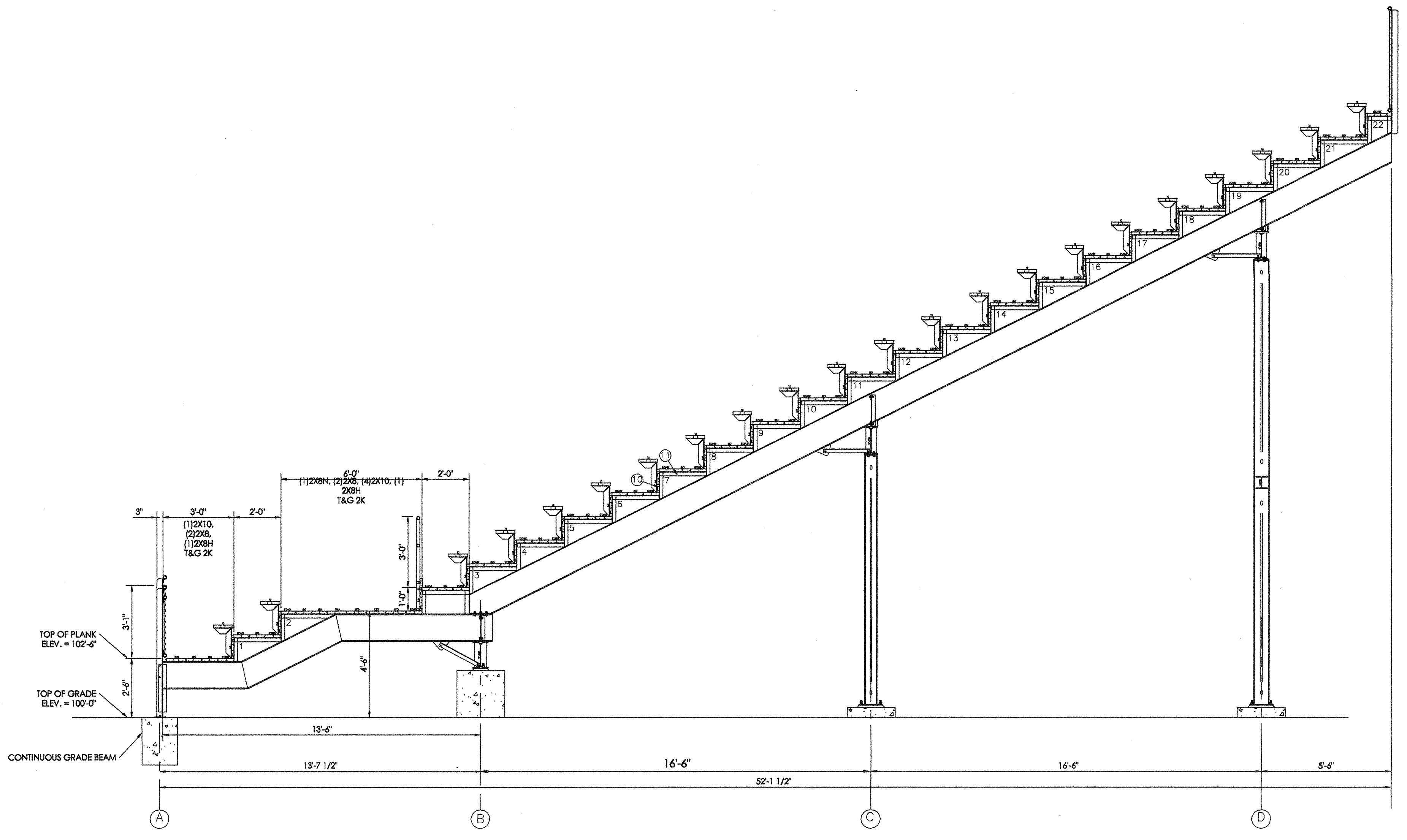
DATE ISSUED: 12-28-15
PROJECT NO: 2014-40163
SCALE: As indicated
SHEET NUMBER: **A100**
SHEET TITLE:

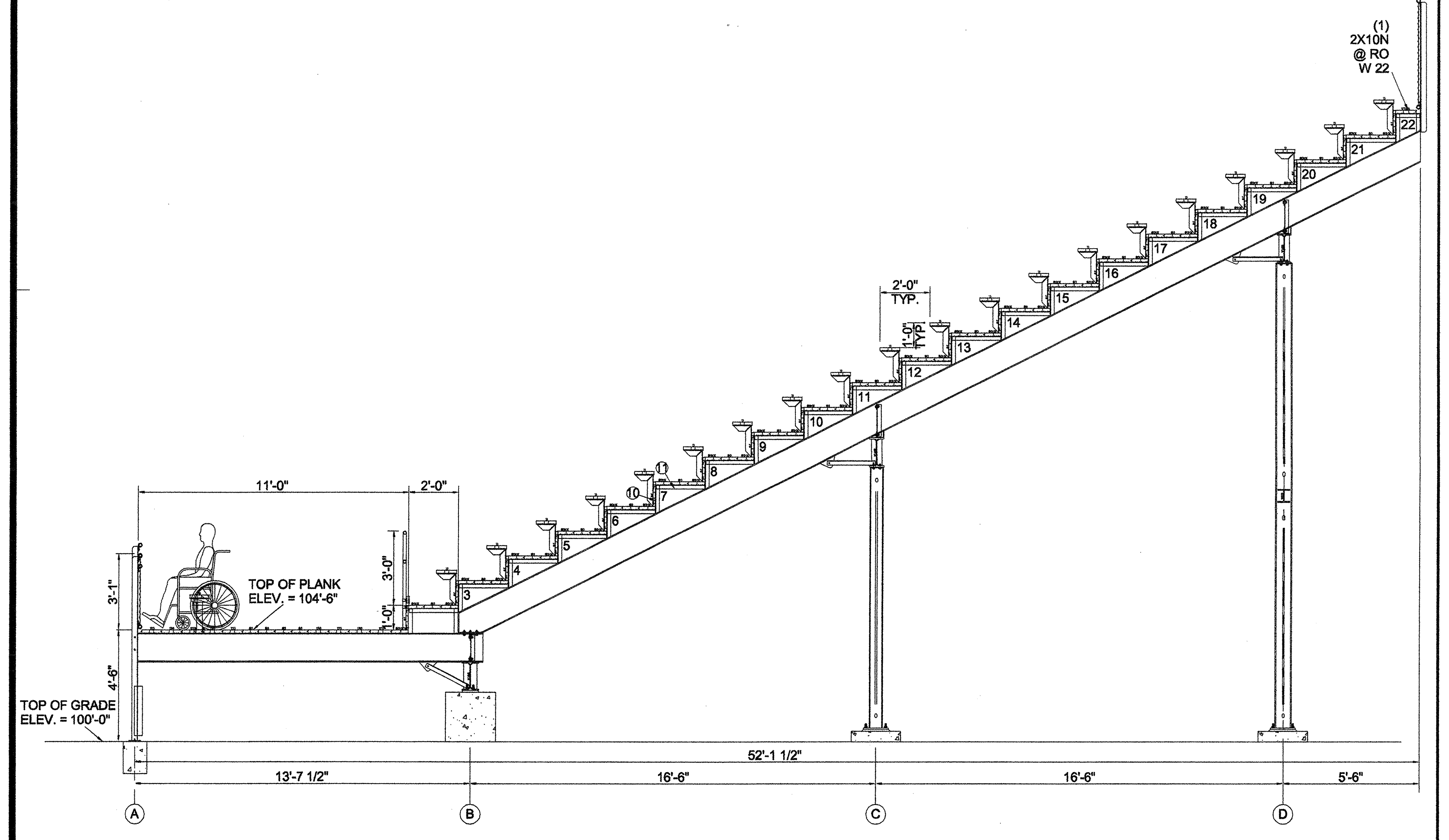
FIRE MASHALL APPROVAL PLAN

SVA ARCHITECTS

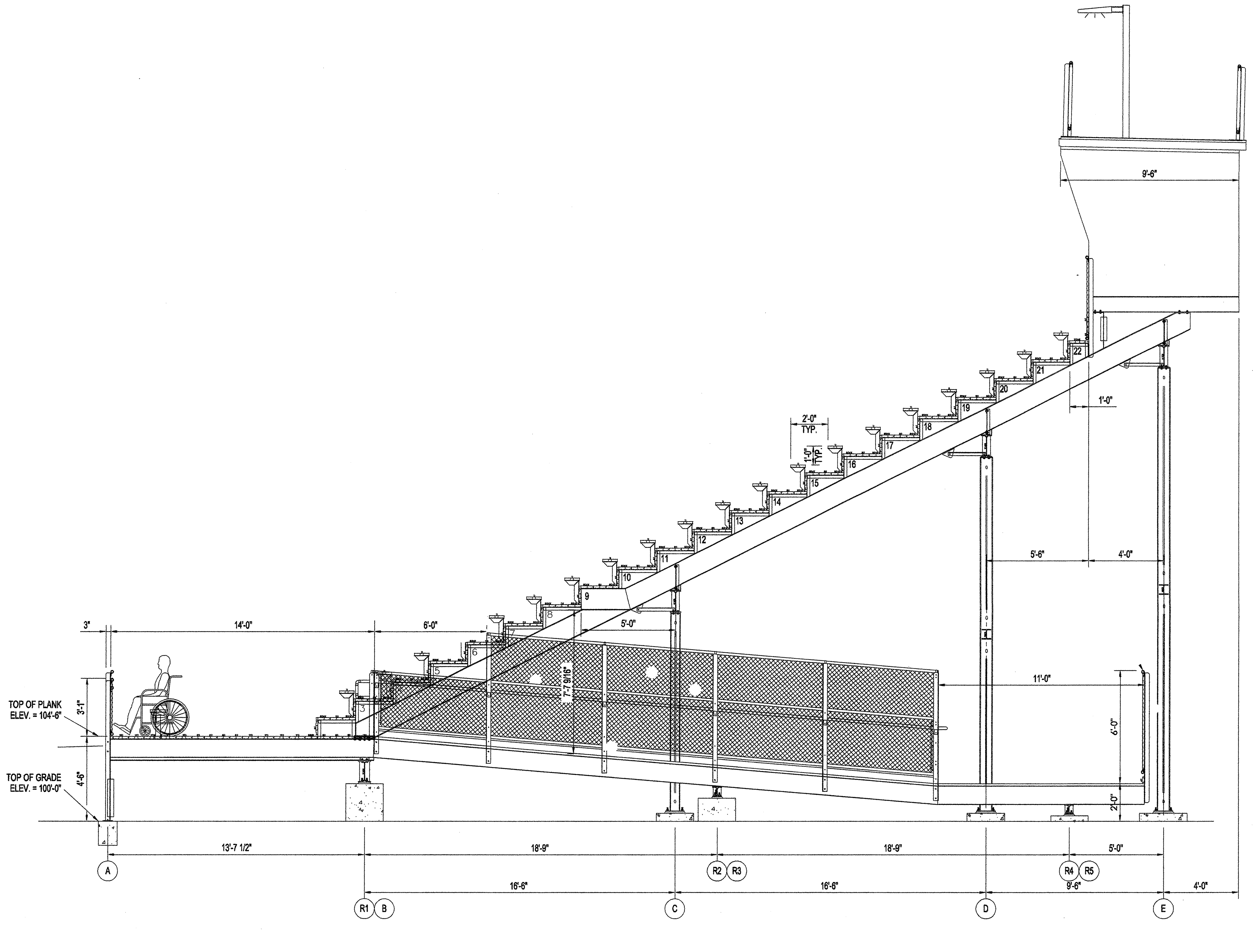
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



SECTION -2 AT BLEACHERS (HOME STAND) - FOR REFERENCE ONLY 1/4" = 1'-0" 5



SECTION AT BLEACHERS (VISITOR STAND) - FOR REFERENCE ONLY 1/4" = 1'-0" 10



SECTION -1 AT BLEACHERS (HOME STAND) - FOR REFERENCE ONLY 1/4" = 1'-0" 1

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL
BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
Robert M. Si
No. C-18301
JAN. 31, 2017
STATE OF CALIFORNIA

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DIVISION OF THE STATE ARCHITECT
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A# 03- 117117
AC N.N. FLS SS
DATE 2/3/2017

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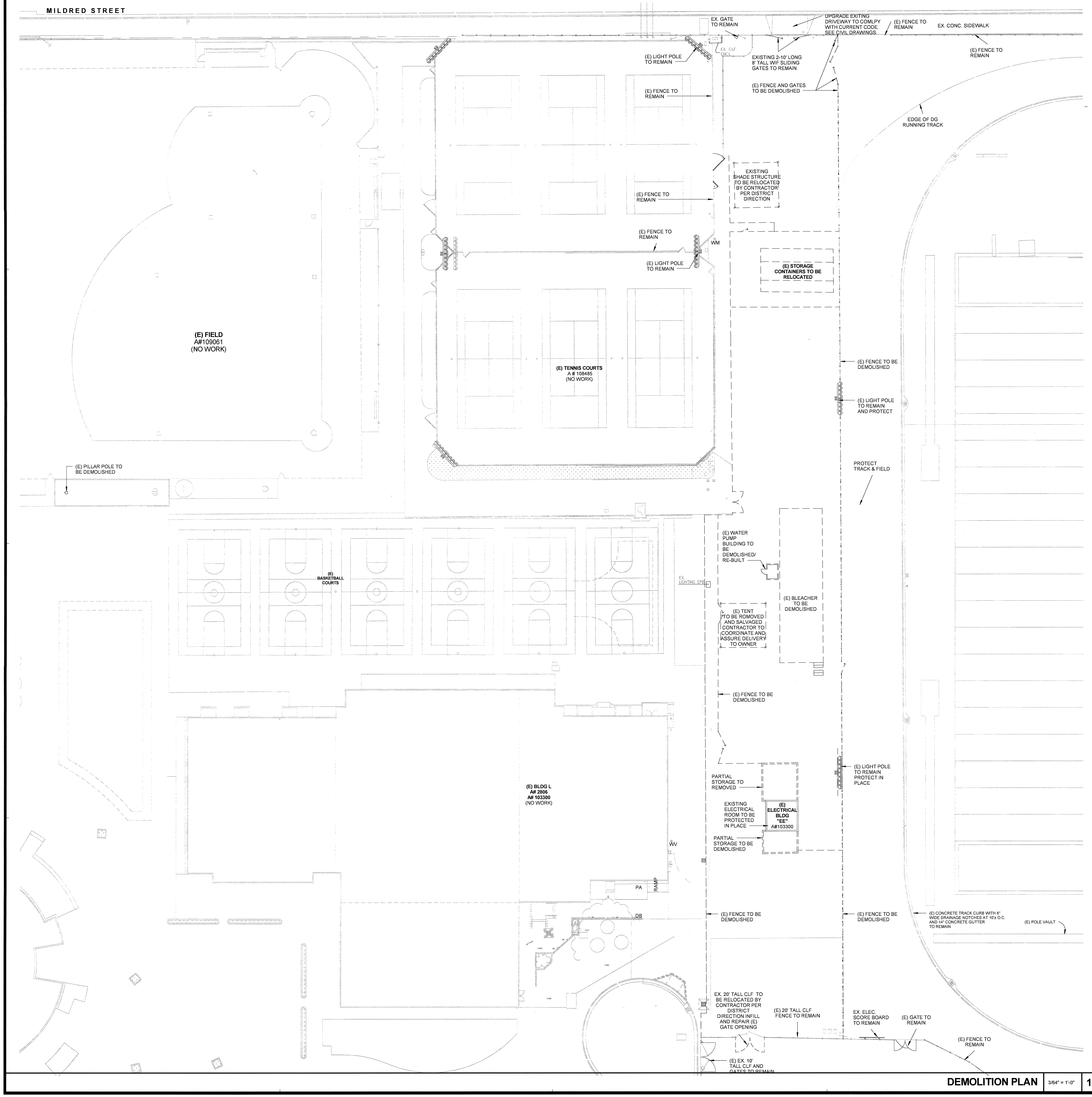
DATE ISSUED:	12-28-15
PROJECT NO:	2014-40163
SCALE:	1/4" = 1'-0"
SHEET NUMBER:	**A101**

SHEET TITLE:

FIRE MASHALL APPROVAL PLAN SECTIONS AT BLEACHERS

SVA
ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM


MILDRED STREET
EX. GATE TO REMAIN
UPGRADE EXITING DRIVEWAY TO COMLPY WITH CURRENT CODE. SEE CIVIL DRAWINGS.
(E) FENCE TO REMAIN
EX. CONC. SIDEWALK
(E) FENCE TO REMAIN
EX. CLF ENCL.
(E) LIGHT POLE TO REMAIN
EXISTING 2-10' LONG 8' TALL WIF SLIDING GATES TO REMAIN
(E) FENCE AND GATES TO BE DEMOLISHED
(E) FENCE TO REMAIN
EDGE OF DG RUNNING TRACK
EXISTING SHADE STRUCTURE TO BE RELOCATED BY CONTRACTOR PER DISTRICT DIRECTION
(E) FENCE TO REMAIN
(E) FENCE TO REMAIN
WM
(E) LIGHT POLE TO REMAIN
(E) STORAGE CONTAINERS TO BE RELOCATED
(E) FIELD
A#109061
(NO WORK)
(E) TENNIS COURTS
A # 108485
(NO WORK)
(E) FENCE TO BE DEMOLISHED
(E) LIGHT POLE TO REMAIN AND PROTECT
PROTECT TRACK & FIELD
(E) PILLAR POLE TO BE DEMOLISHED
(E) WATER PUMP BUILDING TO BE DEMOLISHED/ RE-BUILT
(E) BASKETBALL COURTS
EX. LIGHTING EPB
(E) BLEACHER TO BE DEMOLISHED
(E) TENT TO BE ROMOVED AND SALVAGED CONTRACTOR TO COORDINATE AND ASSURE DELIVERY TO OWNER
(E) FENCE TO BE DEMOLISHED
(E) LIGHT POLE TO REMAIN PROTECT IN PLACE
PARTIAL STORAGE TO REMOVED
EXISTING ELECTRICAL ROOM TO BE PROTECTED IN PLACE
(E) ELECTRICAL BLDG "EE" A#103300
PARTIAL STORAGE TO BE DEMOLISHED
(E) BLDG L
A# 2806
A# 103300
(NO WORK)
WV
PA
RAMP
DB
(E) FENCE TO BE DEMOLISHED
(E) FENCE TO BE DEMOLISHED
(E) CONCRETE TRACK CURB WITH 6" WIDE DRAINAGE NOTCHES AT 10'± O.C. AND 14" CONCRETE GUTTER TO REMAIN
(E) POLE VAULT
EX. 20' TALL CLF TO BE RELOCATED BY CONTRACTOR PER DISTRICT DIRECTION INFILL AND REPAIR (E) GATE OPENING
(E) 20' TALL CLF FENCE TO REMAIN
EX. ELEC. SCORE BOARD TO REMAIN
(E) GATE TO REMAIN
(E) FENCE TO REMAIN
(E) EX. 10' TALL CLF AND GATES TO REMAIN

DEMOLITION PLAN 3/64" = 1'-0" **1**

1 --/-

GENERAL NOTE

×------×	EXISTING FENCE AND GATE TO BE DEMOLISHED
×——×	EXISTING FENCE AND GATE TO REMIAN

DEMO LEGEND

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Robert M. Simons
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS BD SS L
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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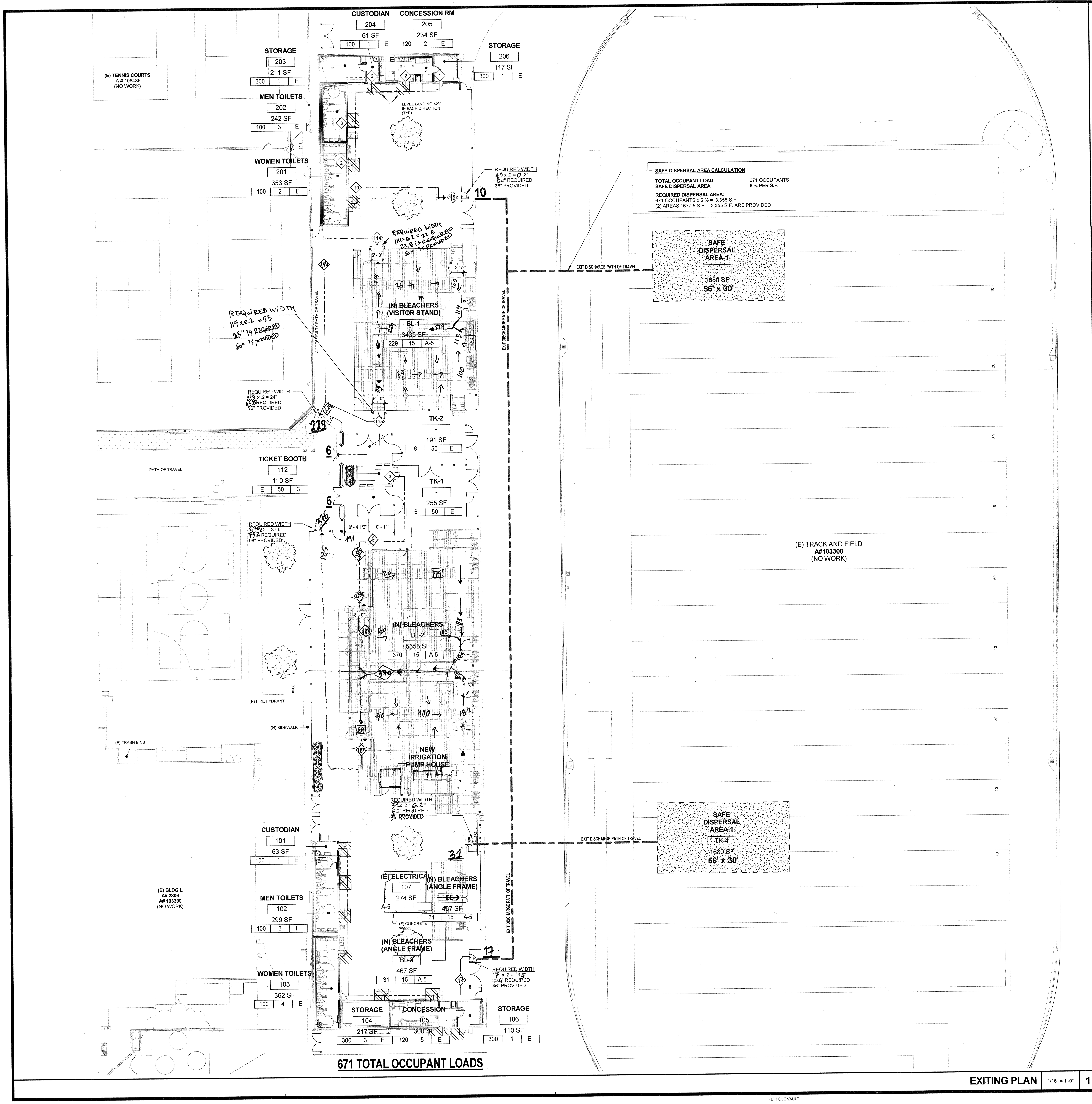
DATE ISSUED:	01-23-2017
PROJECT NO:	2014-40163
SCALE:	As indicated
SHEET NUMBER:	**A110**
SHEET TITLE:	

FIRST FLOOR DEMOLITION PLAN

SVA ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


CUSTODIAN 204 61 SF 100 1 E
CONCESSION RM 205 234 SF 120 2 E
STORAGE 203 211 SF 300 1 E
STORAGE 206 117 SF 300 1 E
(E) TENNIS COURTS A # 108485 (NO WORK)
MEN TOILETS 202 242 SF 100 3 E
WOMEN TOILETS 201 353 SF 100 2 E
LEVEL LANDING <2% IN EACH DIRECTION (TYP)
REQUIRED WIDTH 10 x 2 = 2" 2" REQUIRED 36" PROVIDED
10
REQUIRED WIDTH 114 x 0.2 = 22.8 22.8 IS REQUIRED 60" IS PROVIDED
REQUIRED WIDTH 115 x 0.2 = 23 23" IS REQUIRED 60" IS PROVIDED
ACCESSIBILITY PATH OF TRAVEL
EXIT DISCHARGE PATH OF TRAVEL
(N) BLEACHERS (VISITOR STAND) BL-1 3435 SF 229 15 A-5
REQUIRED WIDTH 229 x 2 = 24" REQUIRED 96" PROVIDED
229
TK-2 191 SF 6 50 E
6
TICKET BOOTH 112 110 SF E 50 3
PATH OF TRAVEL
TK-1 255 SF 6 50 E
REQUIRED WIDTH 376 x 2 = 37.6" 37.6 REQUIRED 96" PROVIDED
376
10' - 4 1/2" 10' - 11"
(N) BLEACHERS BL-2 5553 SF 370 15 A-5
NEW IRRIGATION PUMP HOUSE 111
(N) FIRE HYDRANT
(N) SIDEWALK
(E) TRASH BINS
REQUIRED WIDTH 31 x 2 = 6.2" 6.2" REQUIRED 36" PROVIDED
31
CUSTODIAN 101 63 SF 100 1 E
(E) ELECTRICAL 107 274 SF A-5
(N) BLEACHERS (ANGLE FRAME) BL-3 467 SF 31 15 A-5
(E) CONCRETE WALK
MEN TOILETS 102 299 SF 100 3 E
(E) BLDG L A# 2806 A# 103300 (NO WORK)
(N) BLEACHERS (ANGLE FRAME) BL-3 467 SF 31 15 A-5
17
REQUIRED WIDTH 17 x 2 = 3.4" 3.4" REQUIRED 36" PROVIDED
WOMEN TOILETS 103 362 SF 100 4 E
STORAGE 104 217 SF 300 3 E
CONCESSION 105 300 SF 120 5 E
STORAGE 106 110 SF 300 1 E
SAFE DISPERSAL AREA-1 1680 SF 56' x 30'
SAFE DISPERSAL AREA-1 TK-4 1680 SF 56' x 30'
(E) TRACK AND FIELD A#103300 (NO WORK)
671 TOTAL OCCUPANT LOADS

SAFE DISPERSAL AREA CALCULATION

TOTAL OCCUPANT LOAD	671 OCCUPANTS
SAFE DISPERSAL AREA	**5 % PER S.F.**

REQUIRED DISPERSAL AREA:
671 OCCUPANTS x 5 % = 3,355 S.F.
(2) AREAS 1677.5 S.F. = 3,355 S.F. ARE PROVIDED

EXITING PLAN 1/16" = 1'-0" 1

(E) POLE VAULT

KEY NOTES

▬▬▬ (E) ACCESSIBLE PATH OF TRAVEL (IN COMPLIANCE W/ THE CURRENT CODE) PATH OF TRAVEL BASED ON THE SCOPE OF WORK TO EXISTING ACCESSIBLE PARKING STALL
PATH OF TRAVEL A#32222, A# 03-103293, A# 03-107694

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

PH PANIC HARDWARE →

⊗ EXIT SIGN →

? / ? / ? ? ?

	NO. OF OCCUPANTS IN ROOM
	OCCUPANCY LOAD FACTOR
	OCCUPANCY TYPE
← 24	NO. OF OCCUPANTS AT THIS POINT
- - - -	EXIT ROUTE DIRECTION
— - — -	ACCESS TRAVEL DISTANCE
ET	EXIT SIGN - SEE DETAIL
ER	EXIT ROUTE SIGN - SEE DETAIL
RS	ROOM NUMBER SIGN - SEE DETAIL
RD	DESIGNATION SIGN - SEE DETAIL

ABREVIATIONS:
R REQUIRED
P PROVIDED

LEGEND

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: **3048 TYLER AVENUE, EL MONTE, CA, 91731**

ROBERT M. SIMONS No. C-18301 JAN. 31, 2017

Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-116657
AC N.N. FLS KB SS
DATE 2/3/2017
DSA FILE # 19-410

REVISIONS:

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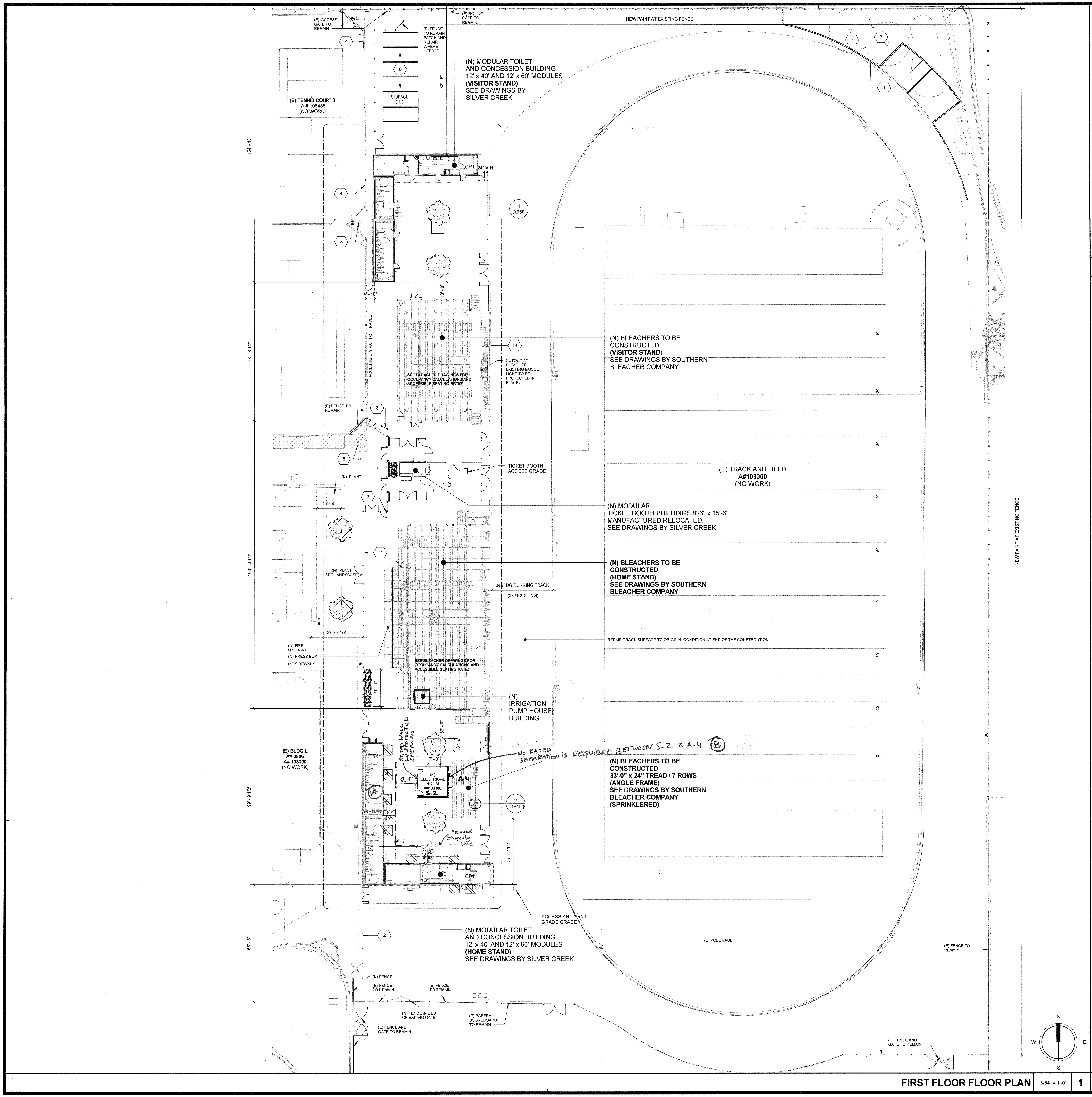
DATE ISSUED:	01-23-2017
PROJECT NO:	2014-40163
SCALE:	As indicated
SHEET NUMBER:	**A200**
SHEET TITLE:	

EXITING PLAN

ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM

SANTA ANA OAKLAND SAN DIEGO HONOLULU


(E) ACCESS GATE TO REMAIN
(E) ROLING GATE TO REMAIN.
NEW PAINT AT EXISTING FENCE
(E) FENCE TO REMAIN PATCH AND REPAIR WHERE NEEDED
STORAGE BINS
(E) TENNIS COURTS
A # 108485
(NO WORK)
154' - 10"
82' - 6"
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES (VISITOR STAND) SEE DRAWINGS BY SILVER CREEK
CP1
24" MIN.
1 A350
4' - 10"
10' - 0"
ACCESSIBILTY PATH OF TRAVEL
78' - 8 1/2"
SEE BLEACHER DRAWINGS FOR OCCUPANCY CALCULATIONS AND ACCESSIBLE SEATING RATIO
CUTOUT AT BLEACHER, EXISTING MUSCO LIGHT TO BE PROTECTED IN PLACE.
(N) BLEACHERS TO BE CONSTRUCTED (VISITOR STAND) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY
(E) FENCE TO REMAIN
TICKET BOOTH ACCESS GRADE
(N) PLANT
13' - 9"
60' - 0"
(E) TRACK AND FIELD
A#103300
(NO WORK)
(N) MODULAR TICKET BOOTH BUILDINGS 8'-6" x 15'-6" MANUFACTURED RELOCATED, SEE DRAWINGS BY SILVER CREEK
(N) PLANT SEE LANDSCAPE
163' - 0 1/2"
(N) BLEACHERS TO BE CONSTRUCTED (HOME STAND) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY
34.7' DG RUNNING TRACK
(37'±EXISTING)
29' - 7 1/2"
(N) FIRE HYDRANT
(N) PRESS BOX
(N) SIDEWALK
REPAIR TRACK SURFACE TO ORIGINAL CONDITION AT END OF THE CONSTRCUTION
21' - 1"
(N) IRRIGATION PUMP HOUSE BUILDING
NEW PAINT AT EXISTING FENCE
RATED WALL W/ PROTECTED OPENINGS
33' - 0"
7' - 0"
NO RATED SEPARATION is REQUIRED BETWEEN S-2 & A-4 (B)
(E) BLDG L
A# 2806
A# 103300
(NO WORK)
9'-7"
(E) ELECTRICAL ROOM
A#103300
S-2
A-4
(A)
10'-0" MIN.
19' - 7"
Assumed Property Line
99' - 9 1/2"
(N) BLEACHERS TO BE CONSTRUCTED 33'-0" x 24" TREAD / 7 ROWS (ANGLE FRAME) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY (SPRINKLERED)
2 GEN-3
37' - 2 1/2"
ACCESS AND VENT GRADE GRADE
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES (HOME STAND) SEE DRAWINGS BY SILVER CREEK
66' - 5"
(E) POLE VAULT
(E) FENCE TO REMAIN
(N) FENCE
(E) FENCE TO REMAIN
(E) FENCE TO REMAIN
(N) FENCE IN LIEU OF EXITING GATE
(E) BASEBALL SCOREBOARD TO REMAIN
(E) FENCE AND GATE TO REMAIN
(E) FENCE AND GATE TO REMAIN
N
W
E
S

FIRST FLOOR FLOOR PLAN 3/64" = 1'-0" 1

FIRST FLOOR KEY NOTES

- 1 (N) ± 2'-0" HEIGHT 8" THK RETAINING WALL SEE CIVIL DRAWINGS.
- 2 8'-0" HEIGHT FENCE PER DETAIL 16/A600
- 3 8'-0" HEIGHT ORNAMENTAL FENCE PER DETAIL 13/A600
- 4 (N) INFILL FENCE AT EXISTING GATE LOCATION.
- 5 EXISTING DRINKING FOUNTAIN TO REMAIN.
- 6 RELOCATE DURING CONSTRUCTION EXISTING STORAGE CONTAINER STEEL BOX AND RE-INSTALL AFTER CONSTRUCTION.
- 7 EXISTING TREE TO REMAIN.
- 7 (N) ACCESSIBLE DIRECTIONAL SIGN, SEE DETAIL 22/GEN-3

FIRST FLOOR LEGEND

▨	8" RETAINING WALL SEE CIVIL DRAWINGS
▥	4" 1-hr RATED WALL 7/8" PLASTER AT EXTERIOR SIDE AND 5/8" TYPE X GYPSUM AT INTERIOR SIDE.SEE DETAIL 20/A420
×—×	8'-0" HEIGHT FENCE PER DETAIL 16/A600
□—□	8'-0" HEIGHT ORNAMENTAL FENCE PER DETAIL 13/A600
×⌒×	CHAIN LINK FENCE GATE SEE SCHEDULE ON SHEET A800 FOR GATE SIZE AND GATE HARDWARE.
□⌒□	ORNAMENTAL GATE SEE SCHEDULE ON SHEET A800 FOR GATE SIZE AND GATE HARDWARE.

Ⓐ HOME STAND BUILDING MODULAR
CONSTRUCTION TYPE VB - sprinklered
occupancy -B-
ACTUAL AREA: 1,674 S.F.
ALLOWABLE AREA: 9,000 S.F. ok

Ⓑ NOW SEPARATED USE:
S-2 MOST RESTRICTIVE AREA
MAX. ALLOWABLE AREA = 26,000 S.F.
ACTUAL S-2 AREA = 707 S.F. ok
[illegible] 0.027 < 1 ok.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Robert M. Simons
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS [illegible] SS [illegible]
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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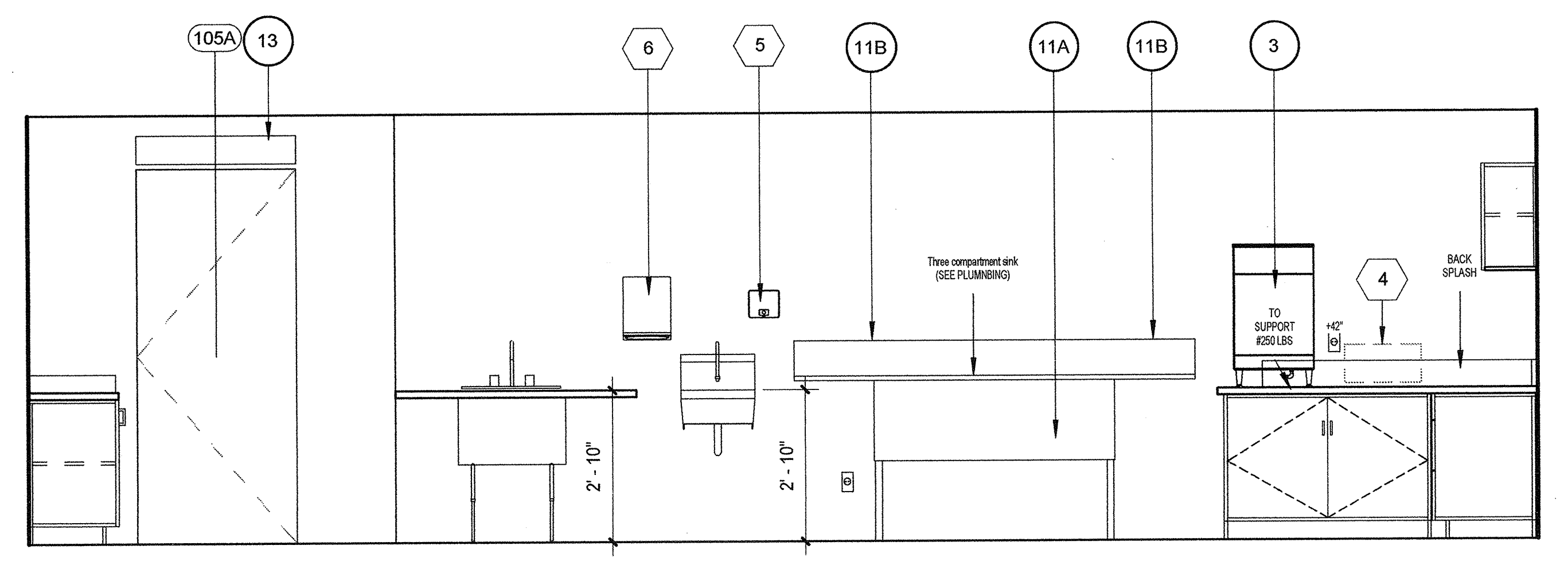
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated
SHEET NUMBER: A210
SHEET TITLE:

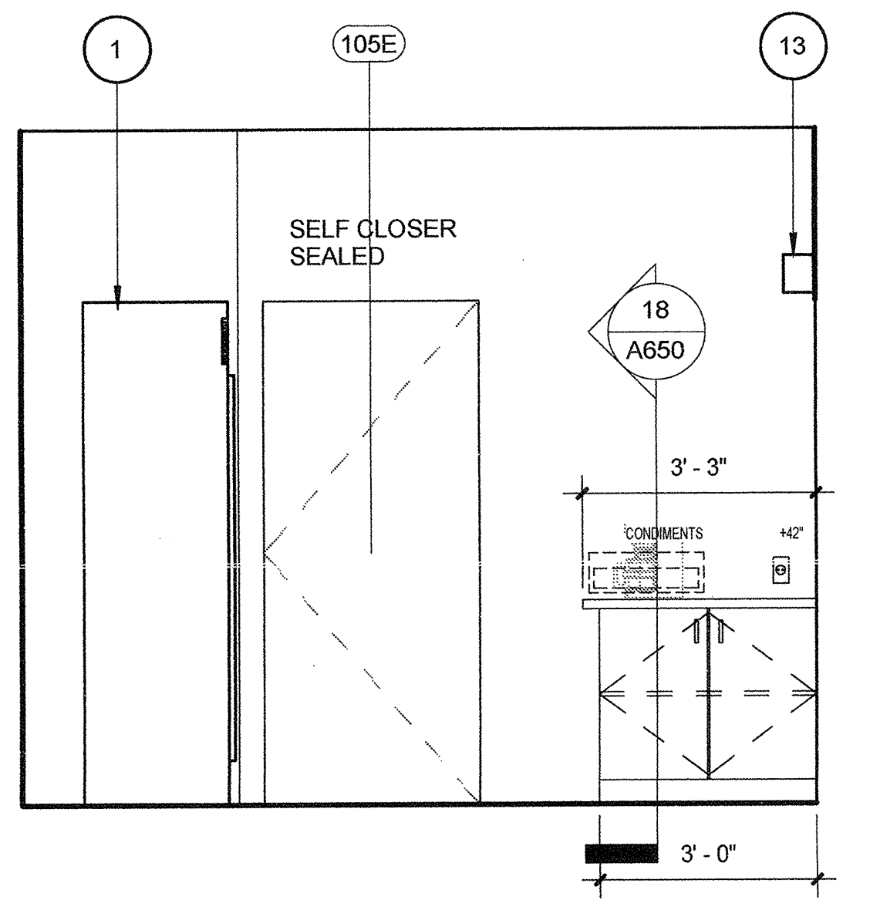
FIRST FLOOR FLOOR PLAN

SVA ARCHITECTS

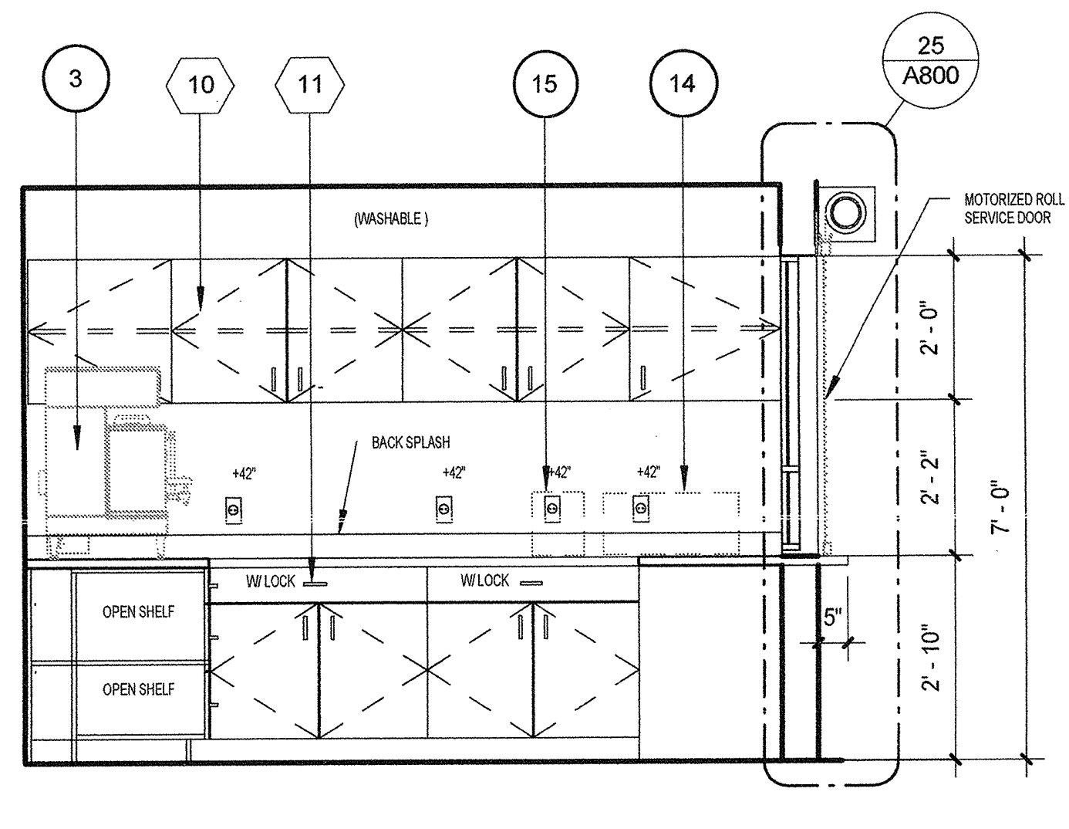
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU



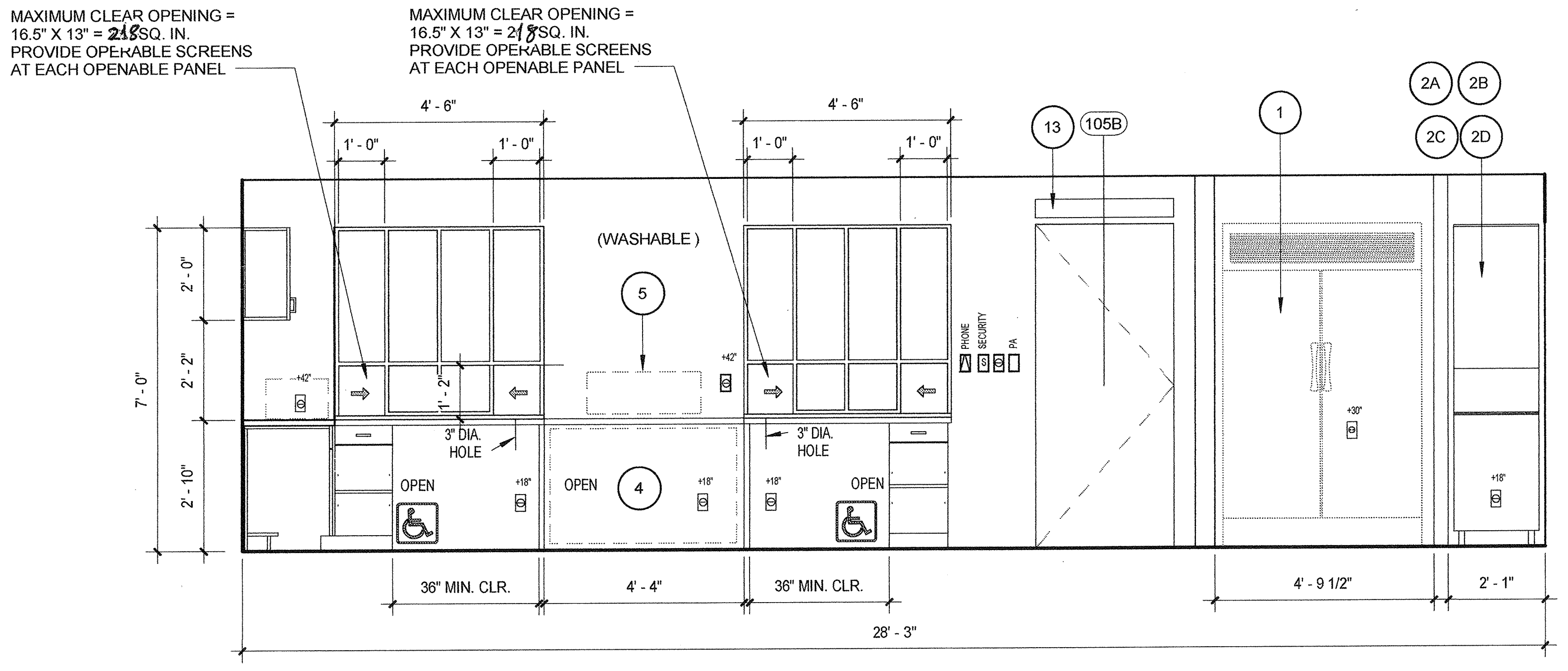
8C CONCESSION ROOM #105 - VIEW C
3/8" = 1'-0"



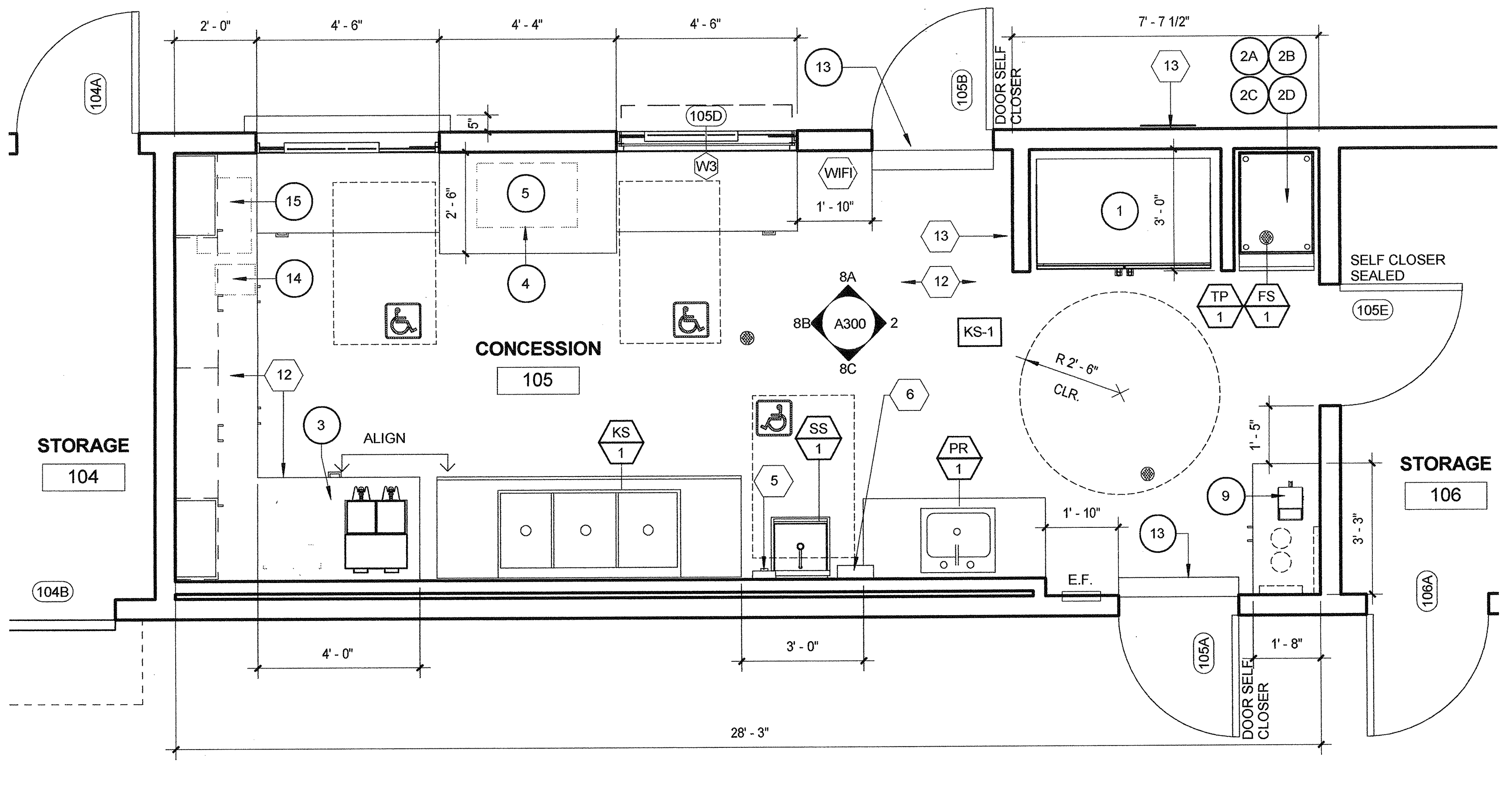
2 CONCESSION ROOM #105 - VIEW D
3/8" = 1'-0"



8B CONCESSION ROOM #105 - VIEW B
3/8" = 1'-0"



8A CONCESSION ROOM #105 - VIEW A
3/8" = 1'-0"



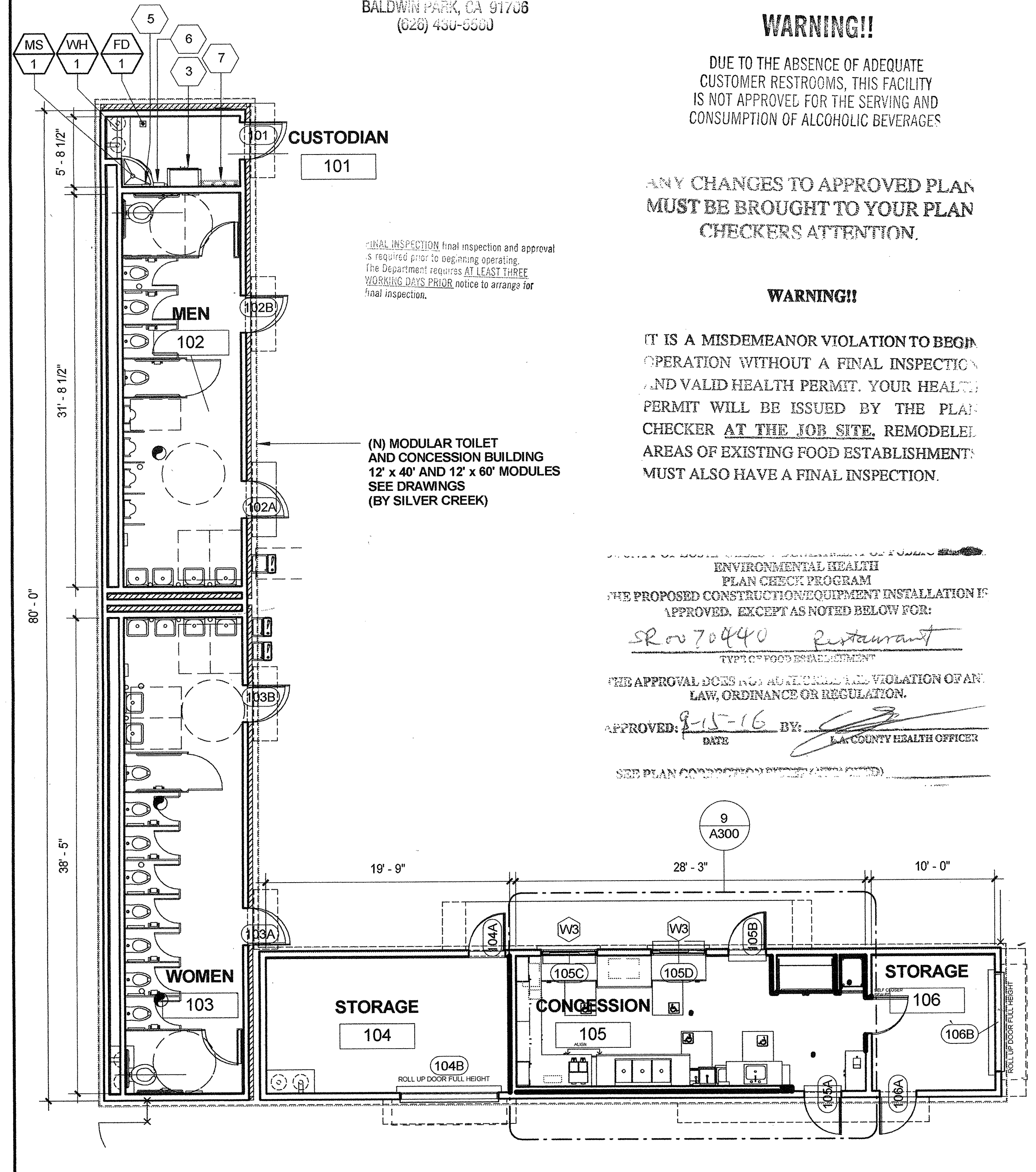
ENLARGED CONCESSION ROOM #105 (HOME) 3/8" = 1'-0" 9

ITEM NUMBER		SMACMA NUMBER	WEIGHT LBS.	COLD WATER SIZE IN INCH.	HOT WATER SIZE IN INCH.	HOT WATER GPH	DIRECT DRAIN SIZE IN INCH.	INDIRECT DRAIN SIZE IN INCH.	
1	REFRIGERATOR (O.F.O.I.) MNFTR: TRAULSEN G-SERIES REACH-IN REFRIGERATORS / SELF-CONTAINED MODEL #G20010	11	710						115V, 1 PHASE, 80 Hz, 7.6A
2A	ICE MAKER W/ BIN ICE MAKER SLIM-LINE MODULAR CRESCENT CUBER (O.F.O.I.) MNFTR: HOSHIZAKI AIR-COOLED 1 PHASE MODEL #KM-340MAH	11	430	0.375				0.5	
2B	CLEANING SYSTEM (PART OF ITEM 2A)								
2C	ICE MAKER ACCESSORIES								
2D	FILTER SYSTEM, ICE MAKER								
3	COUNTERTOP ICE CREAM MACHINE (O.F.O.I.) MNFTR: BUNN MODEL ULTRA-2 HP MANUAL FILL								
4	UNDER COUNTER SODA REFRIGERATOR (O.F.O.I.) MNFTR: TRUE FOOD MODEL #TUC-48-ADA-HC								
5	FOOD WARMER (O.F.O.I.) MNFTR: HATCO - SPLIT DRAWER WARMER MODEL #HDW-1R2								
6	S/S POT SINK ASSEMBLY	2	400	3/4"	3/4"	135		FS	DIRECT DRAINAGE
7	NOT USED								
8	NOT USED								
9	COFFEE MAKER								
10	ONION SLICER (MANUAL)								
11	NOT USED								
12	NOT USED								
13	CURTAIN AIR MARS MODEL # N236-1UA								1 PHASE / 5.1 AMPS / 120 VOLTAGE WIRE THRU DOOR ACTIVATED MICRO-SWITCH
14	SINGLE SPECIALTY CHEESE WARMER BY STAR (O.F.O.I.)								
15	HOT DOG ROLLER GRILL (O.F.O.I.) MNFTR:NEMCO MODEL #8027SX								

EQUIPMENT SCHEDULE

1. HOT DOG SANDWICHES ARE TO BE SOLD AT THIS POINT OF SALE.
2. COLD CUT SANDWICHES ARE TO BE SOLD AT THIS POINT OF SALE.
3. CONDIMENTS SUCH AS KETCHUP, MUSTARD AND MAYONAISE WILL BE PRE-PACKAGED.
4. ONION TO BE CUT ON SPOT.
5. NO COOKING FOOD AT THIS LOCATION.
6. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
7. ALL WALLS AT CONCESSION ROOMS TO BE WASHABLE

GENERAL NOTES



LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC HEALTH
PLAN CHECK PROGRAM
5050 COMMERCE DRIVE
BALDWIN PARK, CA 91706
(626) 430-5560

FINAL INSPECTION final inspection and approval is required prior to beginning operating. The Department requires AT LEAST THREE WORKING DAYS PRIOR notice to arrange for final inspection.

(N) MODULAR TOILET
AND CONCESSION BUILDING
12' x 40' AND 12' x 60' MODULES
SEE DRAWINGS
(BY SILVER CREEK)

BEFORE STARTING CONSTRUCTION
A Building Permit Must Be Obtained From Your Building And Safety Department.

WARNING!!

DUE TO THE ABSENCE OF ADEQUATE CUSTOMER RESTROOMS, THIS FACILITY IS NOT APPROVED FOR THE SERVING AND CONSUMPTION OF ALCOHOLIC BEVERAGES

ANY CHANGES TO APPROVED PLAN MUST BE BROUGHT TO YOUR PLAN CHECKERS ATTENTION.

WARNING!!

IT IS A MISDEMEANOR VIOLATION TO BEGIN OPERATION WITHOUT A FINAL INSPECTION AND VALID HEALTH PERMIT. YOUR HEALTH PERMIT WILL BE ISSUED BY THE PLAN CHECKER AT THE JOB SITE. REMODELED AREAS OF EXISTING FOOD ESTABLISHMENTS MUST ALSO HAVE A FINAL INSPECTION.

[illegible]
ENVIRONMENTAL HEALTH
PLAN CHECK PROGRAM
THE PROPOSED CONSTRUCTION/EQUIPMENT INSTALLATION IS APPROVED. EXCEPT AS NOTED BELOW FOR:
SR0070440 Restaurant
TYPE OF FOOD ESTABLISHMENT
THE APPROVAL DOES NOT AUTHORIZE THE VIOLATION OF ANY LAW, ORDINANCE OR REGULATION.
APPROVED: 9-15-16 BY:
DATE L.A. COUNTY HEALTH OFFICER
SEE PLAN CORRECTION SHEET (ATTACHED)

MODULAR FLOOR PLAN (HOME) 1/8" = 1'-0" 5

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CUSTODIAN 101	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 102	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 103	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 104	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 105	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 106	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 201	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 202	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 203	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CUSTODIAN 204	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 205	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 206	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
PUMP HOUSE 111	CONC	4" TS	P	P	P	P	-	-	NO CEILING
TICKET BOOTH 112	LVT	4" TS	P	P	P	P	CL	9'-0"	

FLOOR FINISHES:

CONC	EXPOSED AND SEALED CONCRETE SLAB INSTALLED WITH WALL BASE B-1
EPX	EPOXY RESINOUS FLOORING BY TNEMEC. SERIES 237 | POWER-TREAD - SLIP RESISTANT COLOR: CUSTOM, AS SELECTED BY ARCHITECT
LVT	MOHAWK, BOLDER 888 SCHIST, LVT SIZE 36" X 36" OR MOHAWK, SHIKUMEN C0005, MODEL #945 MEDITATION, VINYL TILE SIZE 18" X 36"

WALL MATERIAL

FRP-1	FIBERGLASS REINFORCED PANELS MARLITE, COLOR TBD .FULL HEIGHT WALL
MW	METAL WALL PANELS PER FOOD SERVICE DRAWINGS

CEILING TILE:

CP	'CLEAN ROOM VL' WASHABLE, SMOOTH AND NON ABSORBENT BY ARMSTRONG, HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
CL	'FINE FISSURED 1828' BY ARMSTRONG,HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
HC	PAINTED GYPSUM BOARD

COUNTERTOP FINISHES:

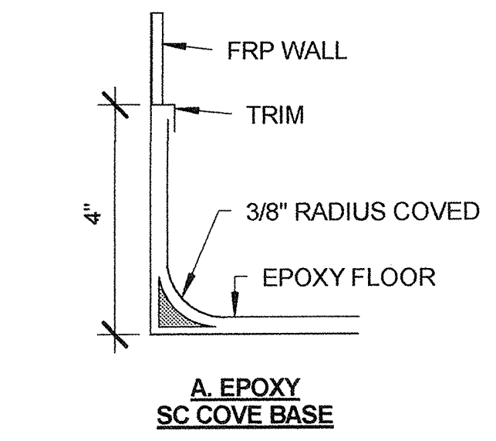
SS-1	BRUSHED STAINLESS STEEL COUNTERTOPS
PL-1	PLASTIC LAMINATE COUNTERTOP: NEVAMAR, MAZE SHIBORI SH2002T

WALL FINISHES:

P	GENERAL AREA PAINT: DUNN EDWARDS, DEW342 BABY'S BREATH
P-2	PAINT SEMI-GLOSS

WALL BASE:

4" TS	4" COVED BASE,BURKE, DUSK BLUE #520
SC	EPOXY 4" COVED BASE, SEE DETAIL A / A300



A. EPOXY SC COVE BASE

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-1
2. PUMP HOUSE TO HAVE NO CEILING.
3. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
4. EPOXY UNDER THE EQUIPMENT AT CONCESSION ROOMS TO BE SMOOTH SURFACE RESINOUS FLOORING BY TNEMEC,

FINISH SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/2" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
SS 1	WALL MOUNT W/ 6" SIDE SPLASHES SERVICE SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6714 "BANNON" 22"X18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
WH 1	WATER HEATER A.O.	3/4"	3/4"	-	-	☒ A.O. SMITH #DEL-16 (6 GALLON) ☐ A.O. SMITH #DEL-20 (10 GALLON)
FS 1	FLOOR SINK	-	-	2"	1 1/2"	ZURN #FD-2370-PV2-F FLOOR SINK WITH FULL GRAATE, DRILL HOLE IN GRATE TO ACCOMODATE PRESSURE RELEIF VALVE LINE.
KS 1	COMPARTMENT SINK	1/2"	1/2"	2"	1 1/2"	ADVANCE TABCO #FC-3-1824-18RL 16 GA 3 COMPARTMENT SINK, 14" DEEP BOWL, ADVANCE TABCO #K-116-CA FAUCET WITH K-316-LU 4" BLADE HANDLES, INSINKERATOR EVOLUTION COMPACT MODEL GARBAGE DISPOSAL 3/4 HP-120 V, 8.1A
PR 1	PREP SINK	1/2"	1/2"			Allstrong 1 Compartment Stainless Steel Sink w/ 2 Drainboards NSF. SE18181D

PLUMBING FIXTURE SCHEDULE

1 STAINLESS STEEL COUNTERTOP - TYPICAL AT ALL CONCESSION ROOMS
2 BRACKET FOR TV AT +62" HEIGHT 4 / A650
3 STORAGE CABINET 30" W. x 24" D.
4 NOT USED
5 SOAP DISPENSER - 4" MAXIMUM PROJECTION BY BOBRICK, 818615
6 PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION BOBRICK B-2620 STAINLESS STEEL SURFACE-MOUNTED.
7 MOP STRIP, BOBRICK B-223x24
8 OPENING AT LOWER CABINET FOR SODA MACHINE - SEE KEY NOTE 4 AND SEE ELEVATION.
9 FRP PANEL - FULL HEIGHT (SEE SPECFIFCATIONS)
10 UPPER CABINET
11 LOWER CABINET - STAINLESS COUNTERTOP
12 A/C AT CONCESSION ROOMS ONLY
13 FIRE EXTINGUISHER CABINET PER DET. 17 / A650

KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2017
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS BD SS
DATE 2/3/2017

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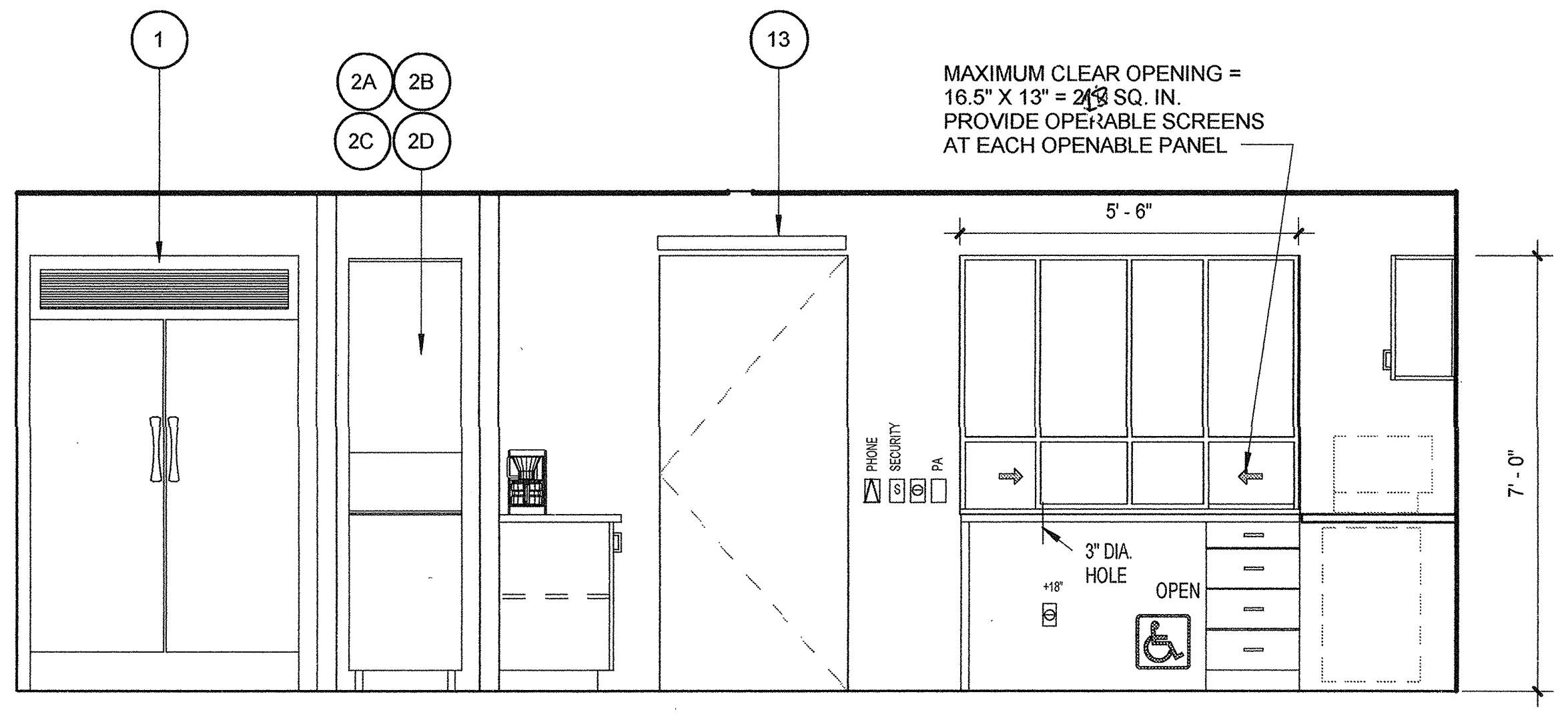
DATE ISSUED:	2014-40163
PROJECT NO:	05-02-2016
SCALE:	As indicated
SHEET NUMBER:	A300

SHEET TITLE:

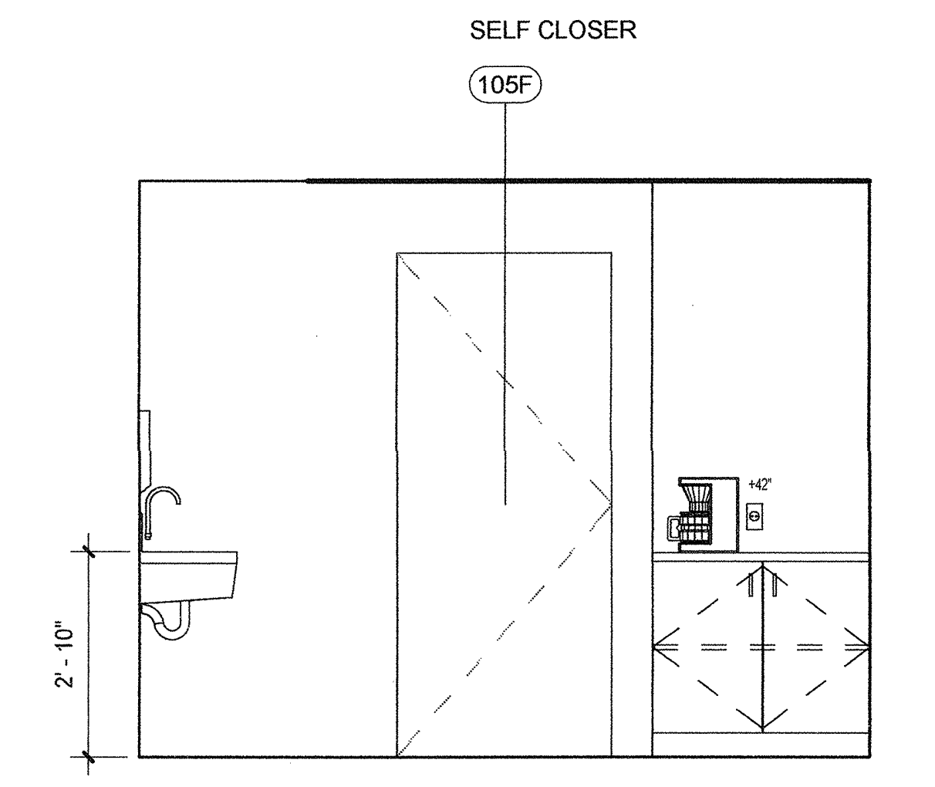
ENLARGED FLOOR PLAN AT CONCESSION ROOM (HOME)

SVA ARCHITECTS

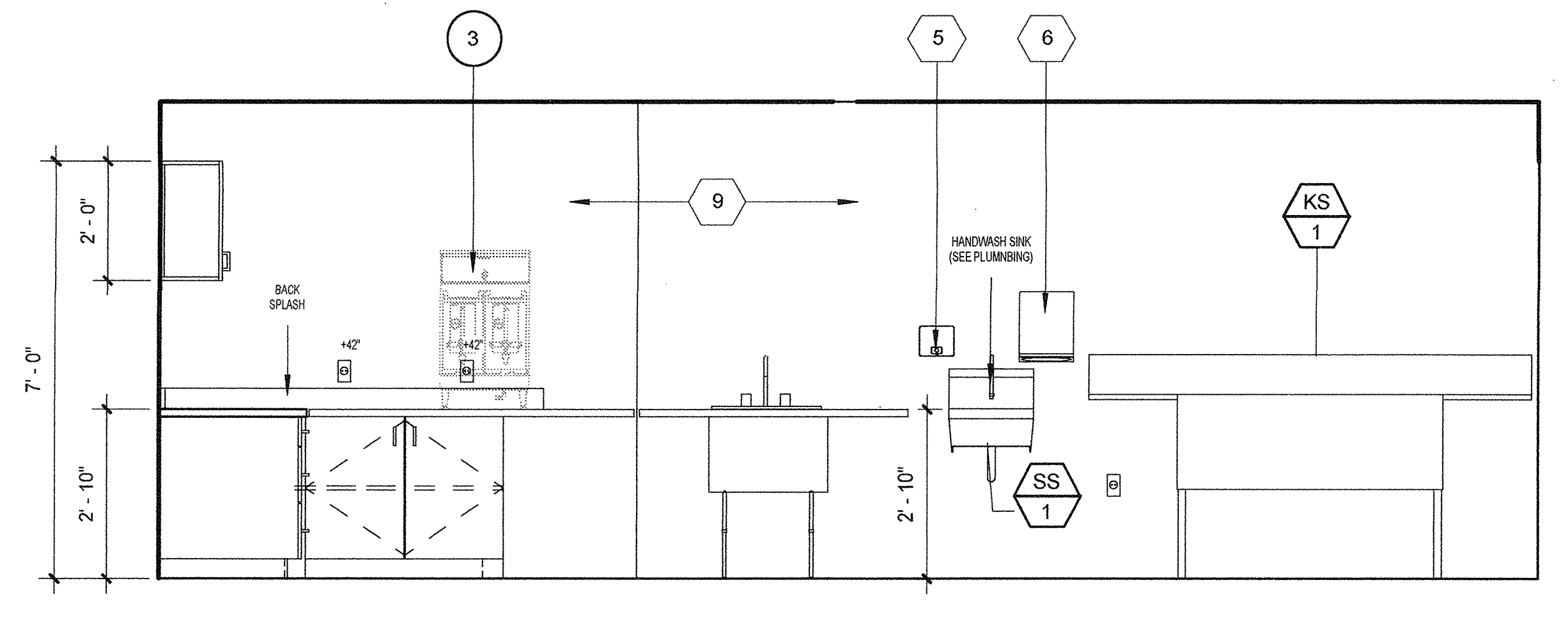
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


1
2A
2B
2C
2D
13
MAXIMUM CLEAR OPENING = 16.5" X 13" = 2[illegible] SQ. IN. PROVIDE OPENABLE SCREENS AT EACH OPENABLE PANEL
5' - 6"
7' - 0"
3" DIA HOLE
OPEN

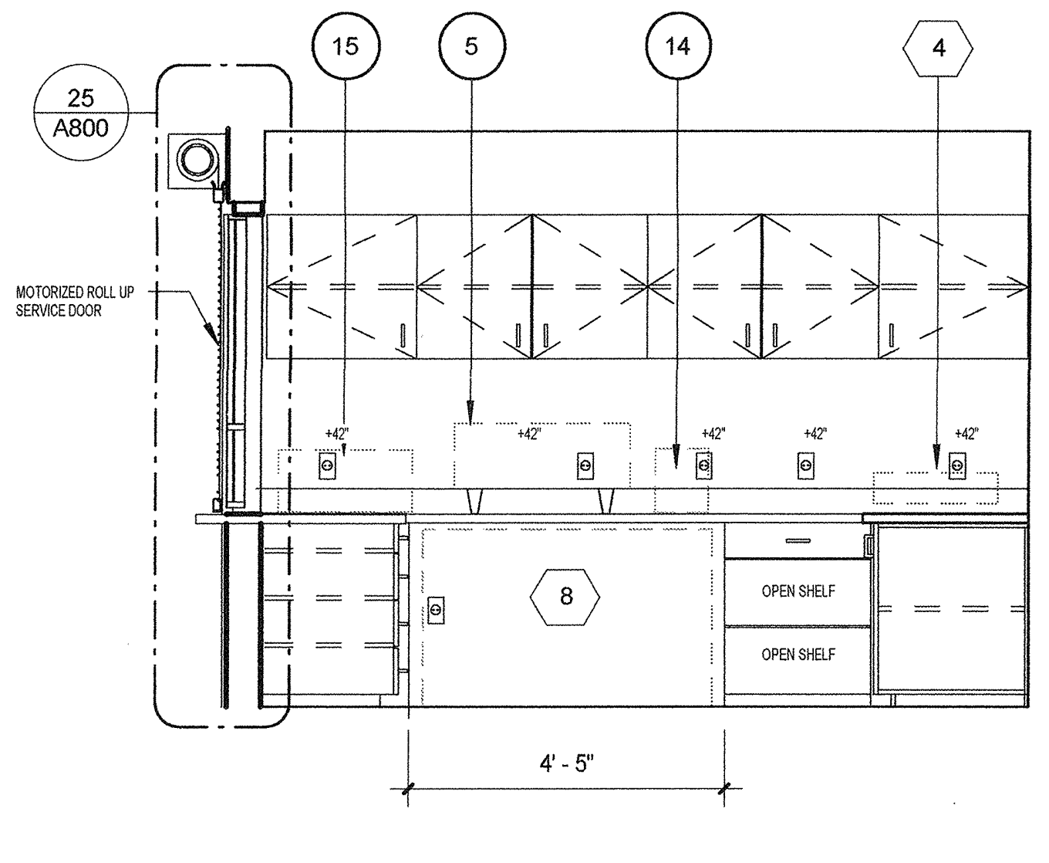
9C CONCESSION ROOM #205 - VIEW C
3/8" = 1'-0"



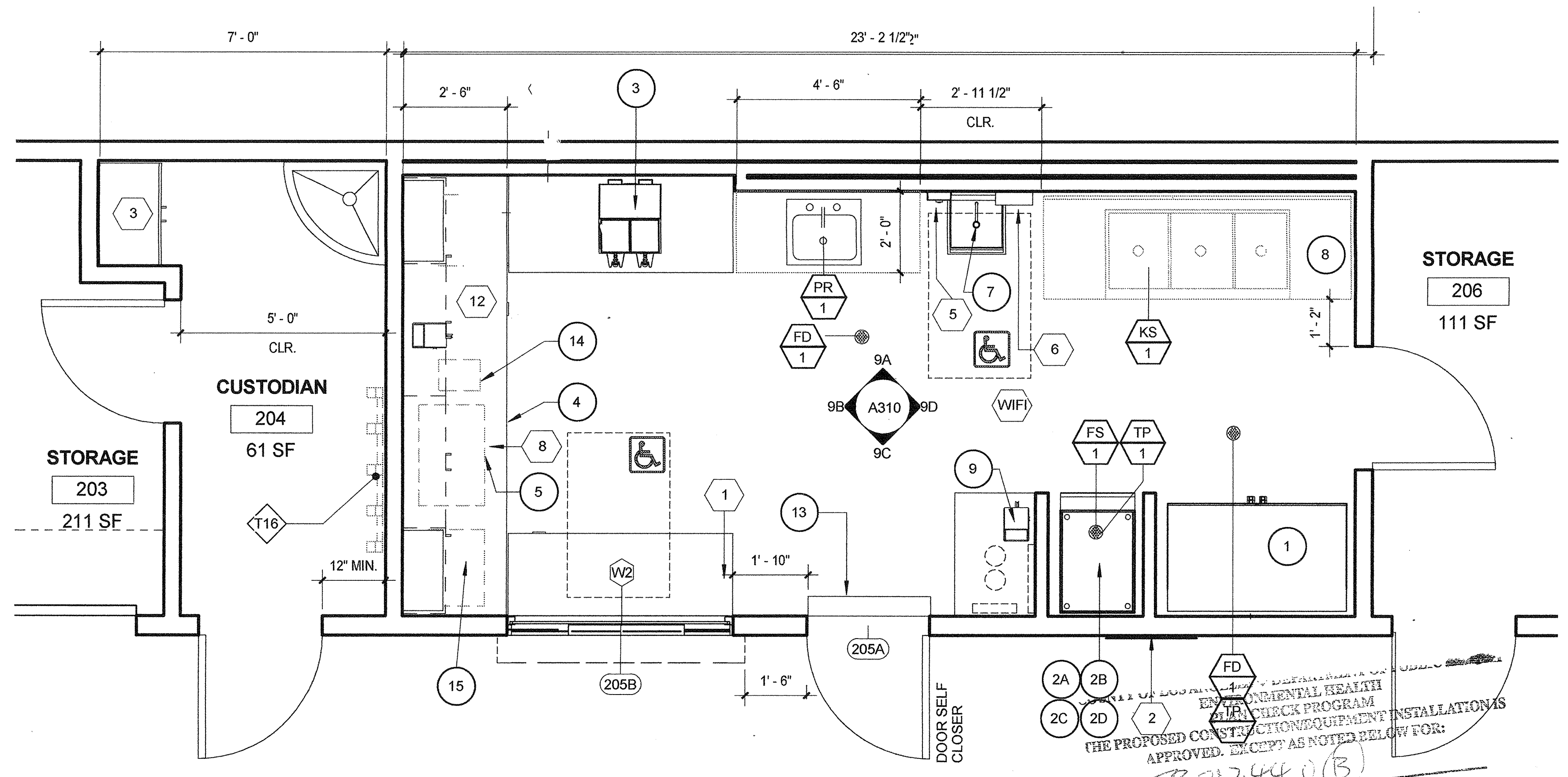
9D CONCESSION ROOM #205 - VIEW D
3/8" = 1'-0"



9A CONCESSION ROOM #205 - VIEW A
3/8" = 1'-0"



9B CONCESSION ROOM #205 - VIEW B
3/8" = 1'-0"



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH
PLAN CHECK PROGRAM
THE PROPOSED CONSTRUCTION/EQUIPMENT INSTALLATION IS APPROVED. EXCEPT AS NOTED BELOW FOR:
SR 0 7044 0 (B)
TYPE OF FOOD ESTABLISHMENT
THE APPROVAL DOES NOT AUTHORIZE THE VIOLATION OF ANY LAW, ORDINANCE OR REGULATION.
APPROVED: ______ DATE BY: ______ L.A. COUNTY HEALTH OFFICER
SEE PLAN CORRECTION [illegible]

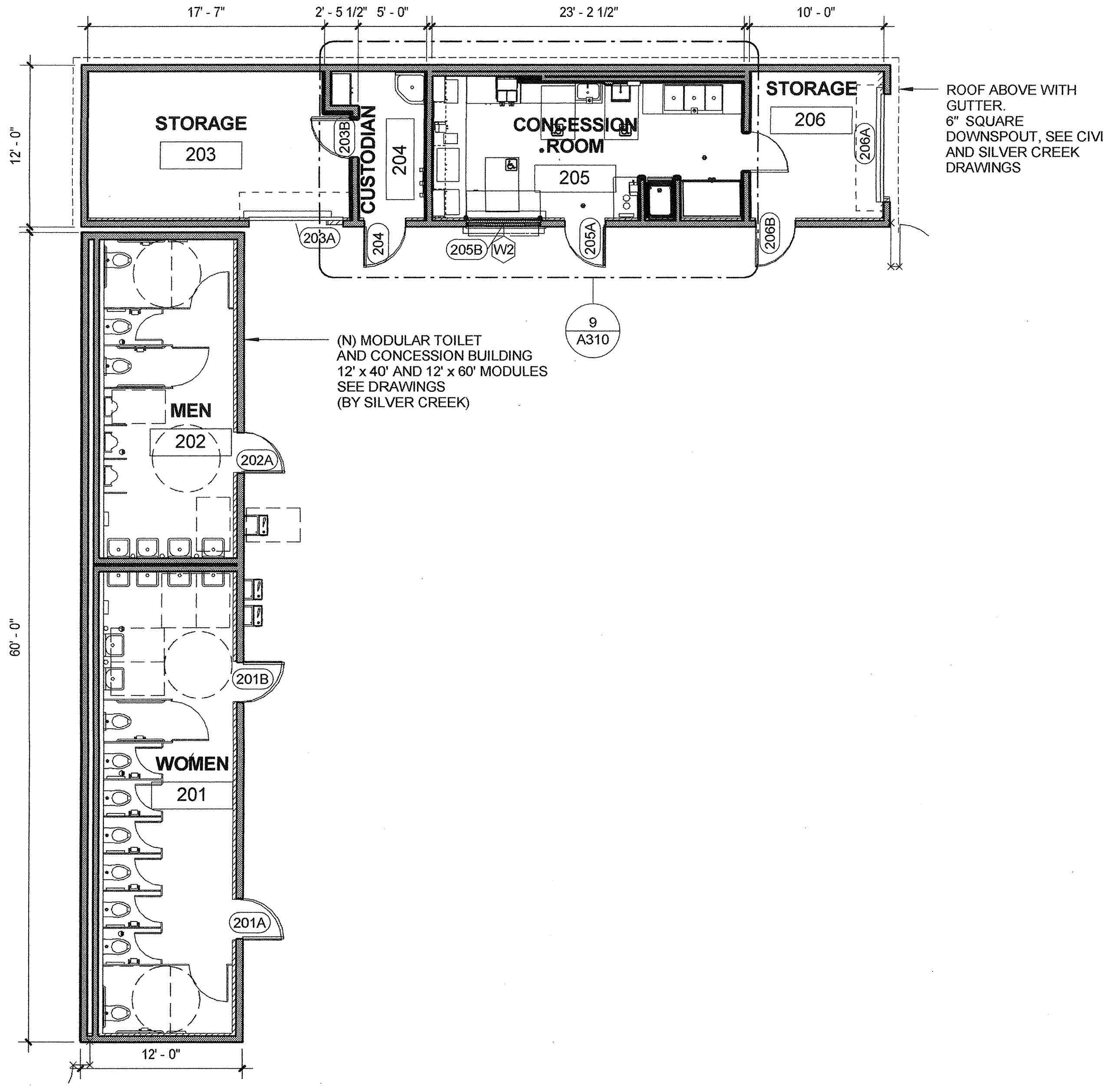
ENLARGED CONCESSION ROOM #205 (VISITOR) 3/8" = 1'-0" 9

ITEM NUMBER		SMACMA NUMBER	WEIGHT LBS.	COLD WATER SIZE IN INCH.	HOT WATER SIZE IN INCH.	HOT WATER GPH	DIRECT DRAIN SIZE IN INCH.	INDIRECT DRAIN SIZE IN INCH.	
1	REFRIGERATOR (O.F.O.I.) MNFTR: TRAULSEN G-SERIES REACH-IN REFRIGERATORS / SELF-CONTAINED MODEL #G20010	11	710						115V, 1 PHASE, 80 Hz, 7.6A
2A	ICE MAKER W/ BIN ICE MAKER SLIM-LINE MODULAR CRESCENT CUBER (O.F.O.I.) MNFTR: HOSHIZAKI AIR-COOLED 1 PHASE MODEL #KM-340MAH	11	430	0.375				0.5	
2B	CLEANING SYSTEM (PART OF ITEM 2A)								
2C	ICE MAKER ACCESSORIES								
2D	FILTER SYSTEM, ICE MAKER								
3	COUNTERTOP ICE CREAM MACHINE (O.F.O.I.) MNFTR: BUNN MODEL ULTRA-2 HP MANUAL FILL								
4	UNDER COUNTER SODA REFRIGERATOR (O.F.O.I.) MNFTR: TRUE FOOD MODEL #TUC-48-ADA-HC								
5	FOOD WARMER (O.F.O.I.) MNFTR: HATCO - SPLIT DRAWER WARMER MODEL #HDW-1R2								
6	S/S POT SINK ASSEMBLY	2	400	3/4"	3/4"	135		FS	DIRECT DRAINAGE
7	NOT USED								
8	NOT USED								
9	COFFEE MAKER								
10	ONION SLICER (MANUAL)								
11	NOT USED								
12	NOT USED								
13	CURTAIN AIR MARS MODEL # N236-1UA								1 PHASE / 5.1 AMPS / 120 VOLTAGE WIRE THRU DOOR ACTIVATED MICRO-SWITCH
14	SINGLE SPECIALTY CHEESE WARMER BY STAR (O.F.O.I.)								
15	HOT DOG ROLLER GRILL (O.F.O.I.) MNFTR:NEMCO MODEL #8027SX								

EQUIPMENT SCHEDULE

1. HOT DOG SANDWICHES ARE TO BE SOLD AT THIS POINT OF SALE.
2. COLD CUT SANDWICHES ARE TO BE SOLD AT THIS POINT OF SALE.
3. CONDIMENTS SUCH AS KETCHUP, MUSTARD AND MAYONAISE WILL BE PRE-PACKAGED.
4. ONION TO BE CUT ON SPOT.
5. NO COOKING FOOD AT THIS LOCATION.
6. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
7. ALL WALLS AT CONCESSION ROOMS TO BE WASHABLE

GENERAL NOTES


17' - 7"
2' - 5 1/2"
5' - 0"
23' - 2 1/2"
10' - 0"
12' - 0"
60' - 0"
12' - 0"
STORAGE
203
CUSTODIAN
204
203B
CONCESSION ROOM
205
STORAGE
206
203A
205B
W2
205A
206B
206A
9
A310
MEN
202
202A
201B
WOMEN
201
201A
ROOF ABOVE WITH GUTTER, 6" SQUARE DOWNSPOUT, SEE CIVIL AND SILVER CREEK DRAWINGS
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES SEE DRAWINGS (BY SILVER CREEK)

MODULAR FLOOR PLAN (VISITOR) 1/8" = 1'-0" 6

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	NOTES
CUSTODIAN 101	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 102	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 103	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 104	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 105	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 106	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 201	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 202	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 203	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CUSTODIAN 204	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 205	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 206	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
PUMP HOUSE 111	CONC	4" TS	P	P	P	P	-	-	NO CEILING
TICKET BOOTH 112	LVT	4" TS	P	P	P	P	CL	9'-0"	

FLOOR FINISHES:

CONC	EXPOSED AND SEALED CONCRETE SLAB INSTALLED WITH WALL BASE B-1
EPX	EPOXY RESINOUS FLOORING BY TNEMEC. SERIES 237 | POWER-TREAD - SLIP RESISTANT COLOR: CUSTOM, AS SELECTED BY ARCHITECT
LVT	MOHAWK, BOLDER 888 SCHIST, LVT SIZE 36" X 36" OR MOHAWK, SHIKUMEN C0005, MODEL #945 MEDITATION, VINYL TILE SIZE 18" X 36"

WALL MATERIAL

FRP-1	FIBERGLASS REINFORCED PANELS MARLITE, COLOR TBD .FULL HEIGHT WALL
MW	METAL WALL PANELS PER FOOD SERVICE DRAWINGS

CEILING TILE:

CP	'CLEAN ROOM VL' WASHABLE, SMOOTH AND NON ABSORBENT BY ARMSTRONG, HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
CL	'FINE FISSURED 1828' BY ARMSTRONG,HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
HC	PAINTED GYPSUM BOARD

COUNTERTOP FINISHES:

SS-1	BRUSHED STAINLESS STEEL COUNTERTOPS
PL-1	PLASTIC LAMINATE COUNTERTOP: NEVAMAR, MAZE SHIBORI SH2002T

WALL FINISHES:

P	GENERAL AREA PAINT: DUNN EDWARDS, DEW342 BABY'S BREATH
P-2	PAINT SEMI-GLOSS

WALL BASE:

4" TS	4" COVED BASE,BURKE, DUSK BLUE #520
SC	EPOXY 4" COVED BASE, SEE DETAIL A / A300

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-1
2. PUMP HOUSE TO HAVE NO CEILING.
3. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
4. EPOXY UNDER THE EQUIPMENT AT CONCESSION ROOMS TO BE SMOOTH SURFACE RESINOUS FLOORING BY TNEMEC,

FINISH SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/2" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
SS 1	WALL MOUNT W/ 6" SIDE SPLASHES SERVICE SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6714 "BANNON" 22"X18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
WH 1	WATER HEATER A.O.	3/4"	3/4"	-	-	☒ A.O. SMITH #DEL-16 (6 GALLON) ☐ A.O. SMITH #DEL-20 (10 GALLON)
FS 1	FLOOR SINK	-	-	2"	1 1/2"	ZURN #FD-2370-PV2-F FLOOR SINK WITH FULL GRAATE, DRILL HOLE IN GRATE TO ACCOMODATE PRESSURE RELEIF VALVE LINE.
KS 1	COMPARTMENT SINK	1/2"	1/2"	2"	1 1/2"	ADVANCE TABCO #FC-3-1824-18RL 16 GA 3 COMPARTMENT SINK, 14" DEEP BOWL, ADVANCE TABCO #K-116-CA FAUCET WITH K-316-LU 4" BLADE HANDLES, INSINKERATOR EVOLUTION COMPACT MODEL GARBAGE DISPOSAL 3/4 HP-120 V, 8.1A
PR 1	PREP SINK	1/2"	1/2"			Allstrong 1 Compartment Stainless Steel Sink w/ 2 Drainboards NSF. SE18181D

PLUMBING FIXTURE SCHEDULE

1	STAINLESS STEEL COUNTERTOP - TYPICAL AT ALL CONCESSION ROOMS
2	BRACKET FOR TV AT +62" HEIGHT 4 / A650
3	STORAGE CABINET 30" W. x 24" D.
4	ONION SLICER (MANUAL)
5	SOAP DISPENSER - 4" MAXIMUM PROJECTION BY BOBRICK, 818615
6	PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION BOBRICK B-2620 STAINLESS STEEL SURFACE-MOUNTED.
7	MOP STRIP, BOBRICK B-223x24
8	OPENING AT LOWER CABINET FOR SODA MACHINE - SEE KEY NOTE 4 AND SEE ELEVATION.
9	FRP PANEL - FULL HEIGHT (SEE SPECFIFCATIONS)
10	UPPER CABINET
11	LOWER CABINET - STAINLESS COUNTERTOP
12	A/C AT CONCESSION ROOMS ONLY
13	FIRE EXTINGUISHER CABINET PER DET. 17 / A650

KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2017

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A#
AC N.N. FLS ED SS
DATE 2/3/2017

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 2014-40163
PROJECT NO: 05-02-2016
SCALE: As indicated

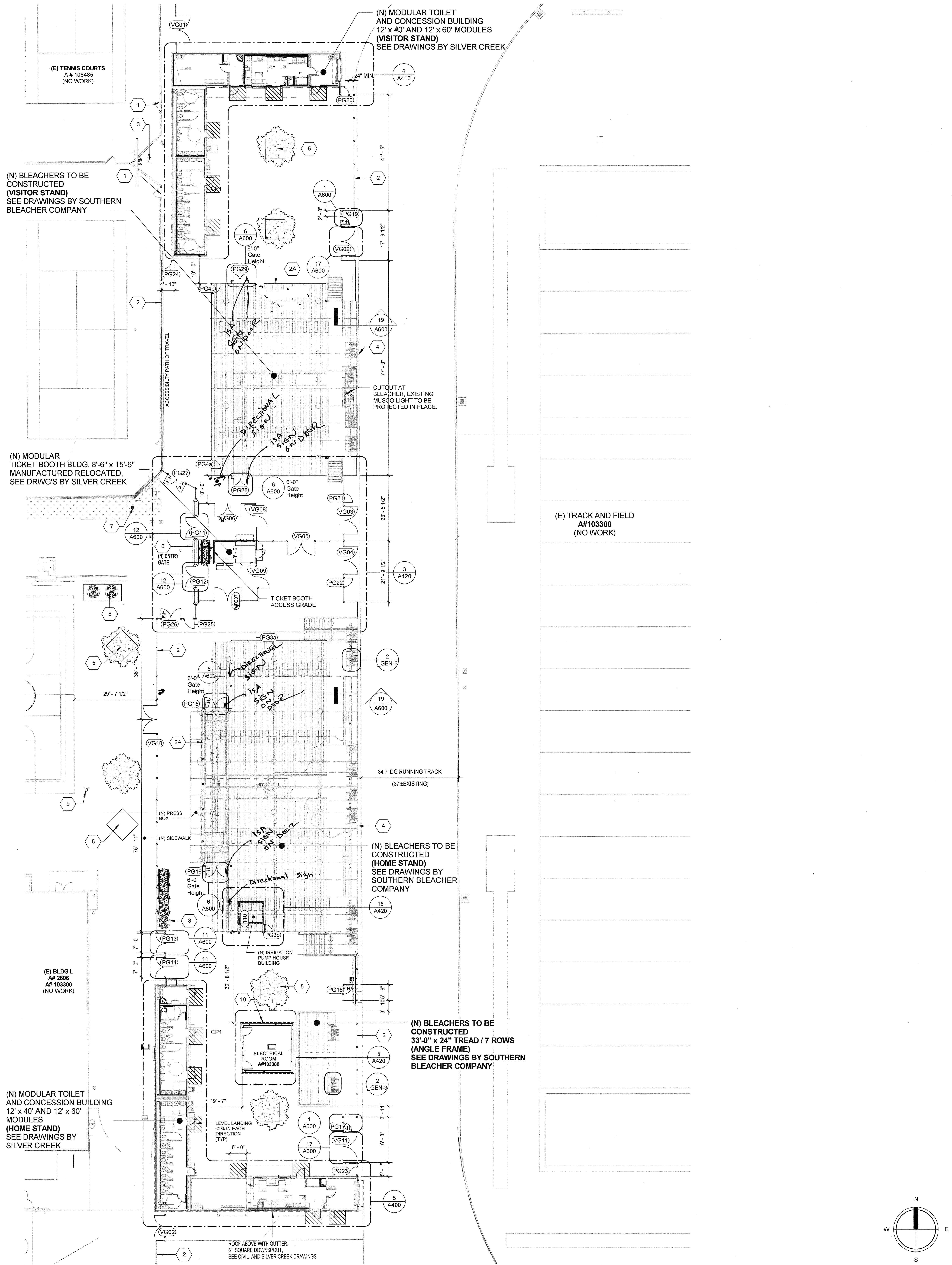
SHEET NUMBER: A310

SHEET TITLE:

ENLARGED FLOOR PLAN AT CONCESSION ROOM (VISITOR)

ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES (VISITOR STAND) SEE DRAWINGS BY SILVER CREEK
(E) TENNIS COURTS A # 108485 (NO WORK)
(N) BLEACHERS TO BE CONSTRUCTED (VISITOR STAND) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY
VG01
PG20
24" MIN.
6 A410
41' - 5"
17' - 9 1/2"
2'- 0"
PG19
VG02
1 A600
6 A600
6'-0" Gate Height
17 A600
PG29
2A
PG24
4' - 10"
10' - 0"
PG4b
19 A600
77' - 0"
ACCESSIBILITY PATH OF TRAVEL
ISA SIGN ON DOOR
DIRECTIONAL SIGN
CUTOUT AT BLEACHER, EXISTING MUSCO LIGHT TO BE PROTECTED IN PLACE.
CP1
(N) MODULAR TICKET BOOTH BLDG. 8'-6" x 15'-6" MANUFACTURED RELOCATED, SEE DRWG'S BY SILVER CREEK
PG4a
PG27
PG28
P.H.
PG21
VG03
VG08
VG06
VG05
VG04
VG09
VG07
PG11
PG12
PG22
PG26
PG25
(N) ENTRY GATE
8'-6"
23' - 5 1/2"
21' - 9 1/2"
3 A420
12 A600
TICKET BOOTH ACCESS GRADE
(E) TRACK AND FIELD A#103300 (NO WORK)
PG3a
2 GEN-3
36' - 1"
29' - 7 1/2"
PG15
VG10
34.7' DG RUNNING TRACK (37'±EXISTING)
(N) PRESS BOX
(N) SIDEWALK
75' - 11"
(N) BLEACHERS TO BE CONSTRUCTED (HOME STAND) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY
PG16
Directional Sign
15 A420
110
PG3b
(N) IRRIGATION PUMP HOUSE BUILDING
PG13
PG14
11 A600
7'- 0"
(E) BLDG L A# 2806 A# 103300 (NO WORK)
32' - 8 1/2"
PG18
3' - 10 5' - 8"
ELECTRICAL ROOM A#103300
(N) BLEACHERS TO BE CONSTRUCTED 33'-0" x 24" TREAD / 7 ROWS (ANGLE FRAME) SEE DRAWINGS BY SOUTHERN BLEACHER COMPANY
5 A420
19' - 7"
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES (HOME STAND) SEE DRAWINGS BY SILVER CREEK
LEVEL LANDING <2% IN EACH DIRECTION (TYP)
6' - 0"
PG17
VG11
3' - 11"
16' - 3"
5' - 1"
PG23
5 A400
VG02
ROOF ABOVE WITH GUTTER. 6" SQUARE DOWNSPOUT, SEE CIVIL AND SILVER CREEK DRAWINGS
1
2
2A
3
4
5
6
7
8
9
10
N
E
S
W

ENLARGED CONSTRUCTION PLAN 1/16" = 1'-0" 1

↗	DIRECTIONAL SIGN PER DET. 22/GEN-3
▩	8" RETAINING WALL SEE CIVIL DRAWINGS
▬	4" 1-hr RATED WALL 7/8" PLASTER AT EXTERIOR SIDE AND 5/8" TYPE X GYPSUM AT INTERIOR SIDE.SEE DETAIL 20/A420
×—×	8'-0" HEIGHT FENCE PER DETAIL 16/A600
□—□	8'-0" HEIGHT ORNAMENTAL FENCE PER DETAIL 13/A600
◜	8'-0" HEIGHT FENCE GATE SEE SCHEDULE
◜	8'-0" HEIGHT ORNAMENTAL GATE SEE SCHEDULE
VG	NEW VEHICLE GATE SEE SCHEDULE ON SHEET A800
PG	NEW PEDESTRIAN GATE SEE SCHEDULE ON SHEET A800

CONSTRUCTION PLAN LEGEND

1	(N) INFILL FENCE AT EXISTING GATE LOCATION.
2	(N) 8'-0" HEIGHT FENCE PER DETAIL 16/A600
2A	(N) 6'-0" HEIGHT FENCE AT BLEACHER PER DETAIL 16/A600
3	(E) DRINKING FOUNTAIN TO REMAIN.
4	ADD 2" MESH 9 GAUGE LINK FABRIC. KNUCKLE SELVAGE @ AT 3'-0" TALL CHAIN LINK ON TOP OF THE BLEACHER PER DET. 19/A600
5	(N) Chinese elm TREE, 36" box, TO CONNECT WITH P.O.C. IRRIGATION OF THE CAMPUS.
6	(N) ENTRY GATE MONUMENT SIGN, SEE DETAIL 4/A901
7	(N) ACCESSIBLE DIRECTIONAL SIGN, SEE DETAIL 22/GEN-3
8	(N) PLANT
9	(N) FIRE HYDRANT
10	(N) METAL ROOF DECK OVER EXISTING ELECTRICAL ROOM VAULT, SEE DETAIL 2/A420

SITE KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS ____ SS ____
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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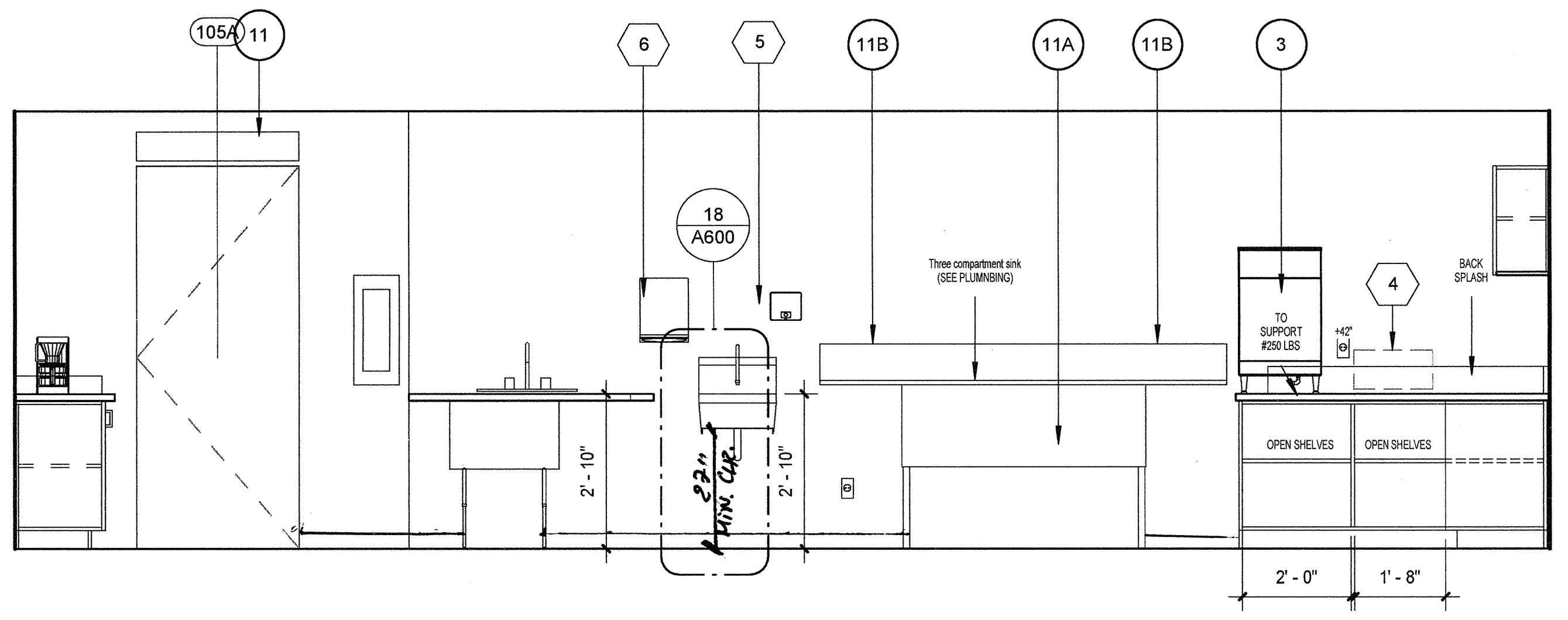
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A350

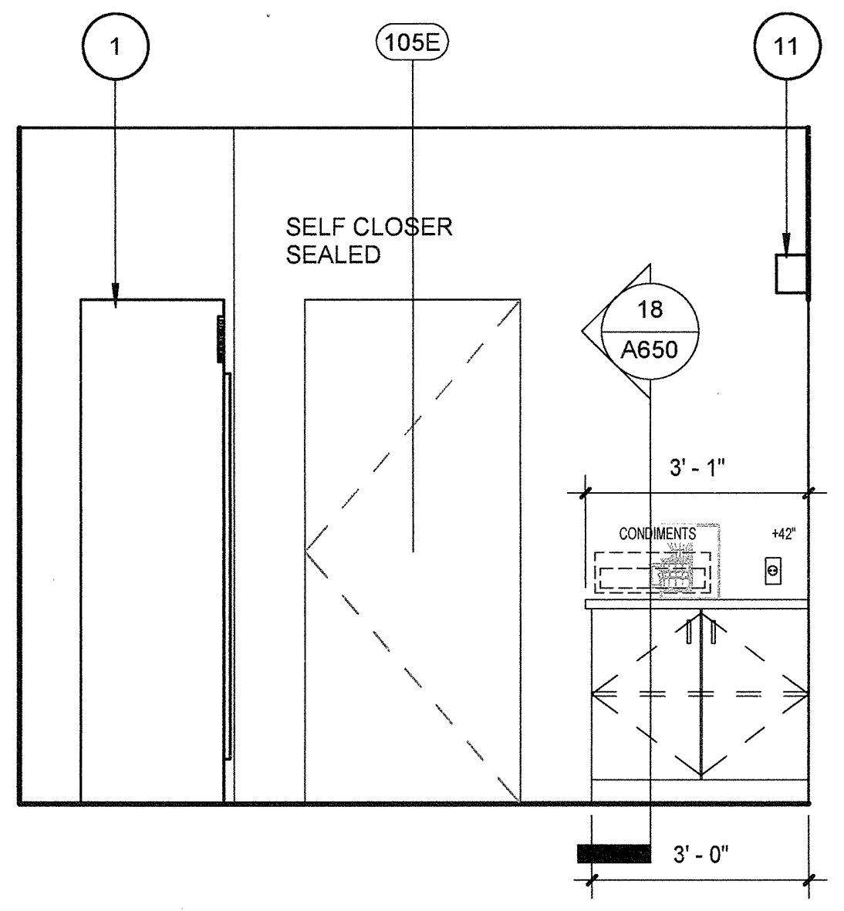
SHEET TITLE:

ENLARGED CONSTRUCTION PLAN

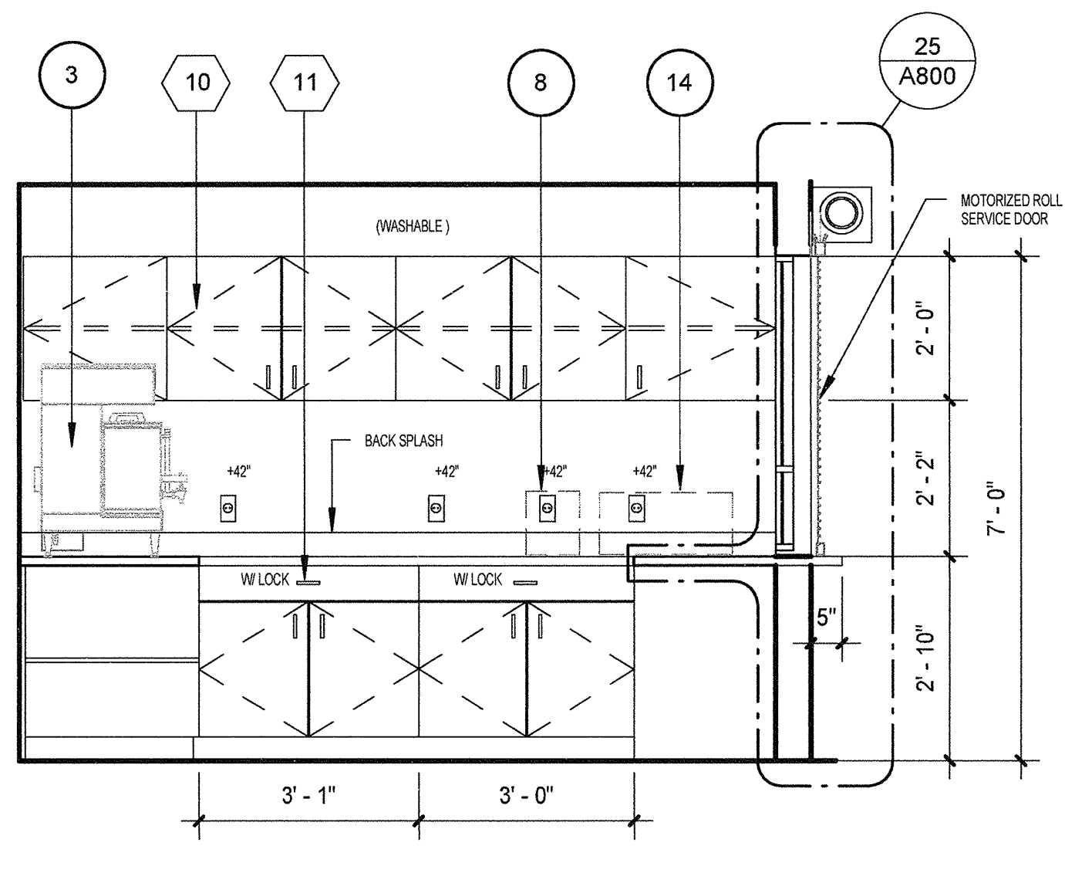
SVA ARCHITECTS
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU



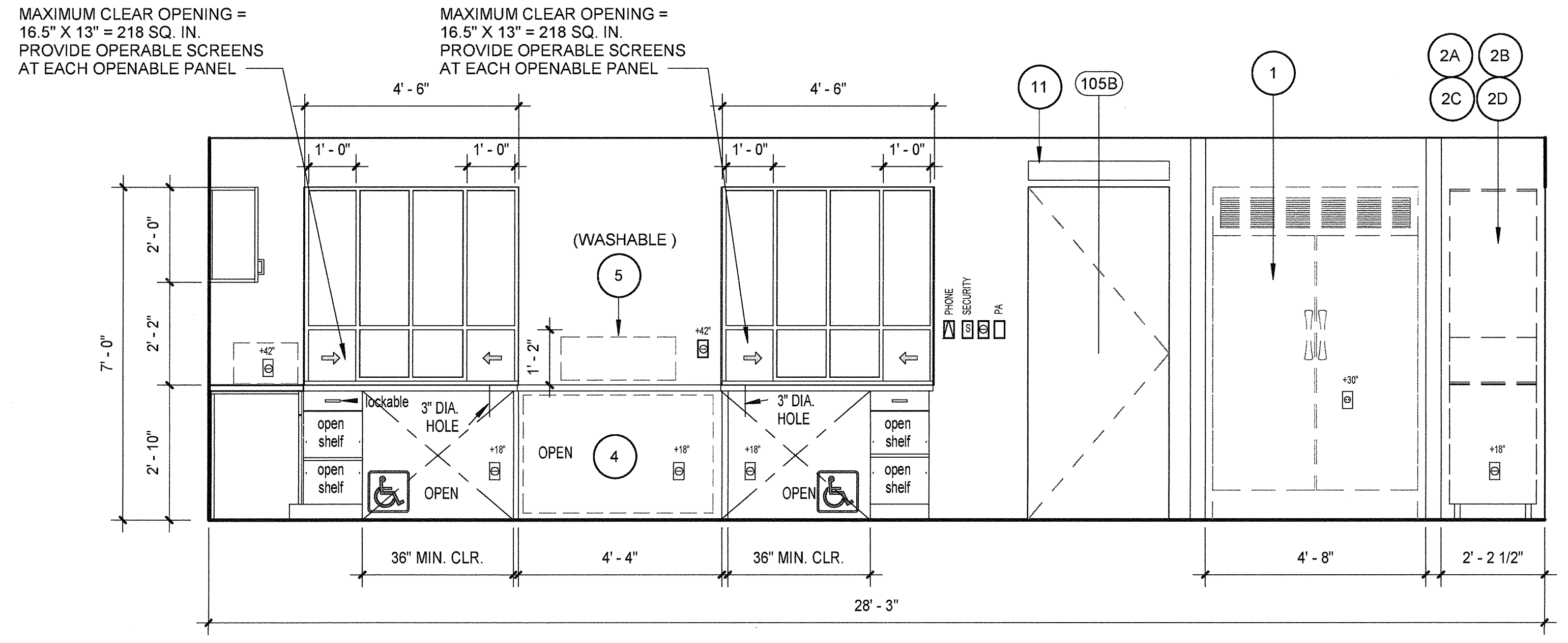
8C CONCESSION ROOM #105 - VIEW C
3/8" = 1'-0"



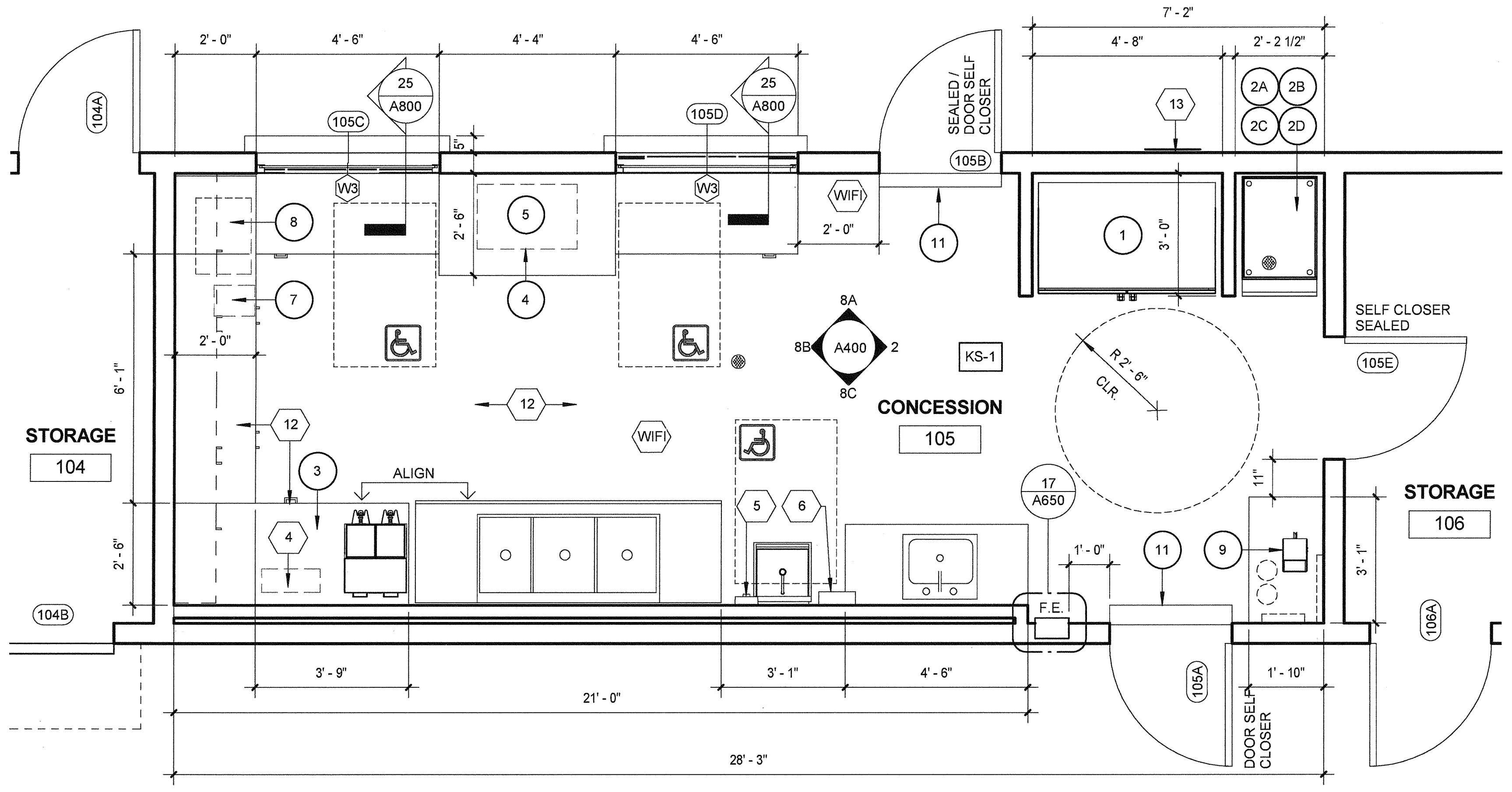
2 CONCESSION ROOM #105 - VIEW D
3/8" = 1'-0"



8B CONCESSION ROOM #105 - VIEW B
3/8" = 1'-0"



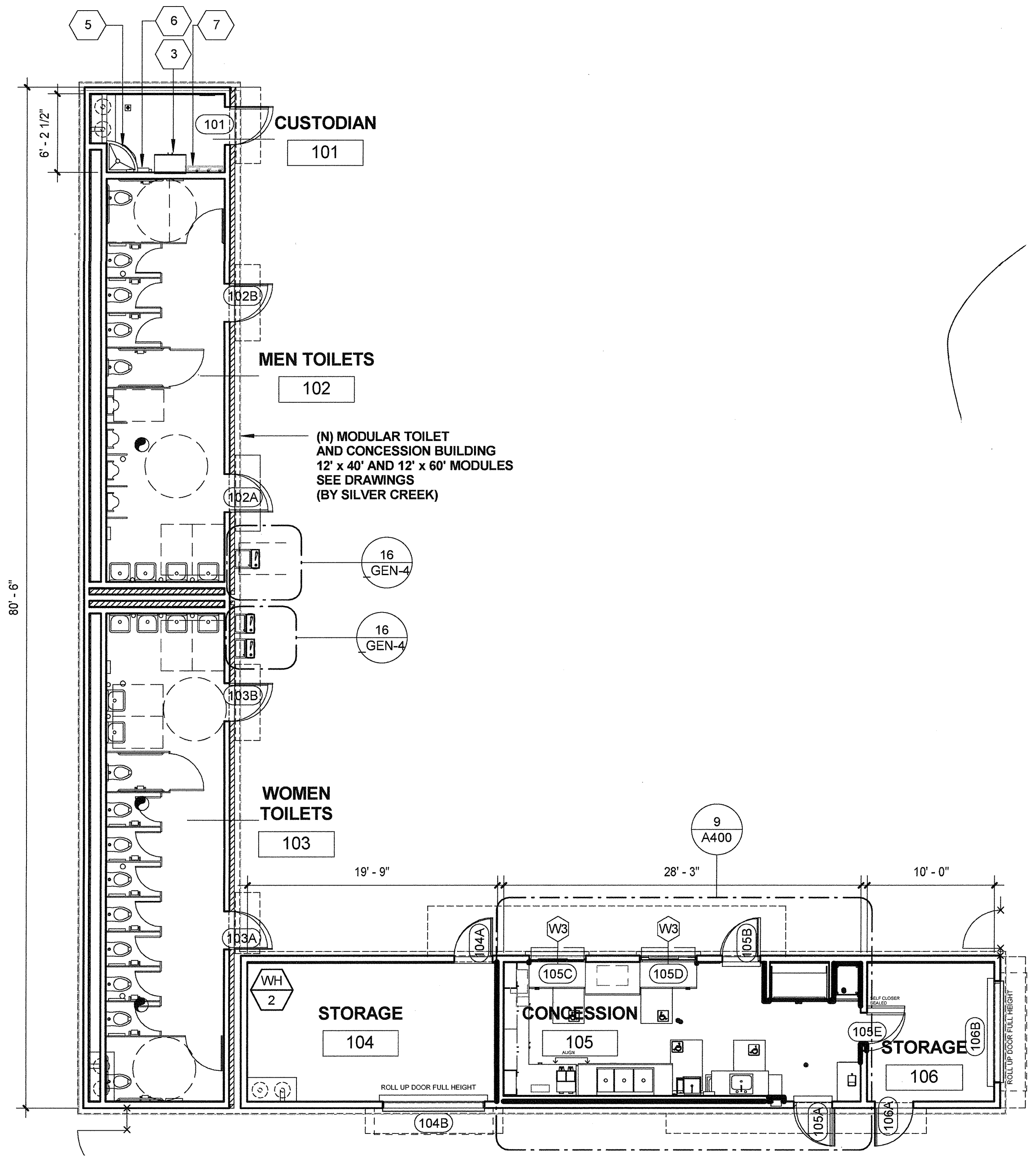
8A CONCESSION ROOM #105 - VIEW A
3/8" = 1'-0"



ENLARGED CONCESSION ROOM #105 (HOME) | 3/8" = 1'-0" | 9

ITEM NUMBER		SMACMA NUMBER	WEIGHT LBS.	COLD WATER SIZE IN INCH.	HOT WATER SIZE IN INCH.	HOT WATER GPH	DIRECT DRAIN SIZE IN INCH.	INDIRECT DRAIN SIZE IN INCH.	
1	REFRIGERATOR (O.F.O.I.) MNFTR: TRAULSEN G-SERIES REACH-IN REFRIGERATORS / SELF-CONTAINED MODEL #G20010	11	710						115V, 1 PHASE, 80 Hz, 7.6A
2A	ICE MAKER W/ BIN ICE MAKER SLIM-LINE MODULAR CRESCENT CUBER (O.F.O.I.) MNFTR: HOSHIZAKI AIR-COOLED 1 PHASE MODEL #KM-340MAH	11	430	0.375				0.5	
2B	CLEANING SYSTEM (PART OF ITEM 2A)								
2C	ICE MAKER ACCESSORIES								
2D	FILTER SYSTEM, ICE MAKER								
3	COUNTERTOP ICE CREAM MACHINE (O.F.O.I.) MNFTR: BUNN MODEL ULTRA-2 HP MANUAL FILL								
4	UNDER COUNTER SODA REFRIGERATOR (O.F.O.I.) MNFTR: TRUE FOOD MODEL #TUC-48-ADA-HC								
5	FOOD WARMER (O.F.O.I.) MNFTR: HATCO - SPLIT DRAWER WARMER MODEL #HDW-1R2								
6	S/S POT SINK ASSEMBLY	2	400	3/4"	3/4"	135		FS	DIRECT DRAINAGE
7	SINGLE SPECIALTY CHEESE WARMER BY STAR (O.F.O.I.)								
8	HOT DOG ROLLER GRILL (O.F.O.I.) MNFTR:NEMCO MODEL #8027SX								
9	COFFEE MAKER								
10	ONION SLICER (MANUAL)								
11	CURTAIN AIR MARS MODEL # N236-1UA								1 PHASE / 5.1 AMPS / 120 VOLTAGE WIRE THRU DOOR ACTIVATED MICRO-SWITCH

EQUIPMENT SCHEDULE



MODULAR FLOOR PLAN (HOME) | 1/8" = 1'-0" | 5

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CUSTODIAN 101	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 102	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 103	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 104	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 105	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 106	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 201	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 202	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 203	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CUSTODIAN 204	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 205	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 206	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
PUMP HOUSE 111	CONC	4" TS	P	P	P	P	-	-	NO CEILING
TICKET BOOTH 112	LVT	4" TS	P	P	P	P	CL	9'- 0"	

FLOOR FINISHES:

CONC	EXPOSED AND SEALED CONCRETE SLAB INSTALLED WITH WALL BASE B-1
EPX	EPOXY RESINOUS FLOORING BY TNEMEC. SERIES 237 | POWER-TREAD - SLIP RESISTANT COLOR: CUSTOM, AS SELECTED BY ARCHITECT
LVT	MOHAWK, BOLDER 888 SCHIST, LVT SIZE 36" X 36" OR MOHAWK, SHIKUMEN C0005, MODEL #945 MEDITATION, VINYL TILE SIZE 18" X 36"

WALL MATERIAL

FRP-1	FIBERGLASS REINFORCED PANELS MARLITE, COLOR TBD .FULL HEIGHT WALL
MW	METAL WALL PANELS PER FOOD SERVICE DRAWINGS

CEILING TILE:

CP	'CLEAN ROOM VL' WASHABLE, SMOOTH AND NON ABSORBENT BY ARMSTRONG, HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
CL	'FINE FISSURED 1828' BY ARMSTRONG,HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
HC	PAINTED GYPSUM BOARD

COUNTERTOP FINISHES:

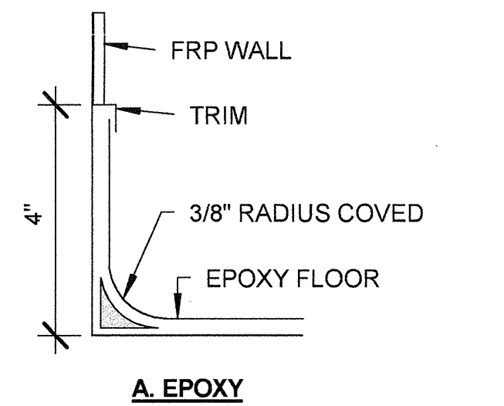
SS-1	BRUSHED STAINLESS STEEL COUNTERTOPS
PL-1	PLASTIC LAMINATE COUNTERTOP: NEVAMAR, MAZE SHIBORI SH2002T

WALL FINISHES:

P	GENERAL AREA PAINT: DUNN EDWARDS, DEW342 BABY'S BREATH
P-2	PAINT SEMI-GLOSS

WALL BASE:

4" TS	4" COVED BASE,BURKE, DUSK BLUE #520
SC	EPOXY 4" COVED BASE, SEE DETAIL A/A400



A. EPOXY
SC COVE BASE

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-1
2. PUMP HOUSE TO HAVE NO CEILING.
3. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
4. EPOXY UNDER THE EQUIPMENT AT CONCESSION ROOMS TO BE SMOOTH SURFACE RESINOUS FLOORING BY TNEMEC,

FINISH SCHEDULE

1	STAINLESS STEEL COUNTERTOP - TYPICAL AT ALL CONCESSION ROOMS
2	BRACKET FOR TV AT +62" HEIGHT 4/A650
3	STORAGE CABINET 30" W. x 24" D.
4	ONION SLICER (MANUAL)
5	SOAP DISPENSER - 4" MAXIMUM PROJECTION BY BOBRICK, 818615
6	PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION BOBRICK B-2620 STAINLESS STEEL SURFACE-MOUNTED.
7	MOP STRIP, BOBRICK B-223x24
8	OPENING AT LOWER CABINET FOR SODA MACHINE - SEE KEY NOTE 4 AND SEE ELEVATION.
9	FRP PANEL - FULL HEIGHT (SEE SPECFIFCATIONS)
10	UPPER CABINET
11	LOWER CABINET - STAINLESS COUNTERTOP
12	A/C AT CONCESSION ROOMS ONLY
13	FIRE EXTINGUISHER CABINET PER DET. 17/A650

KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS [illegible] SS [illegible]
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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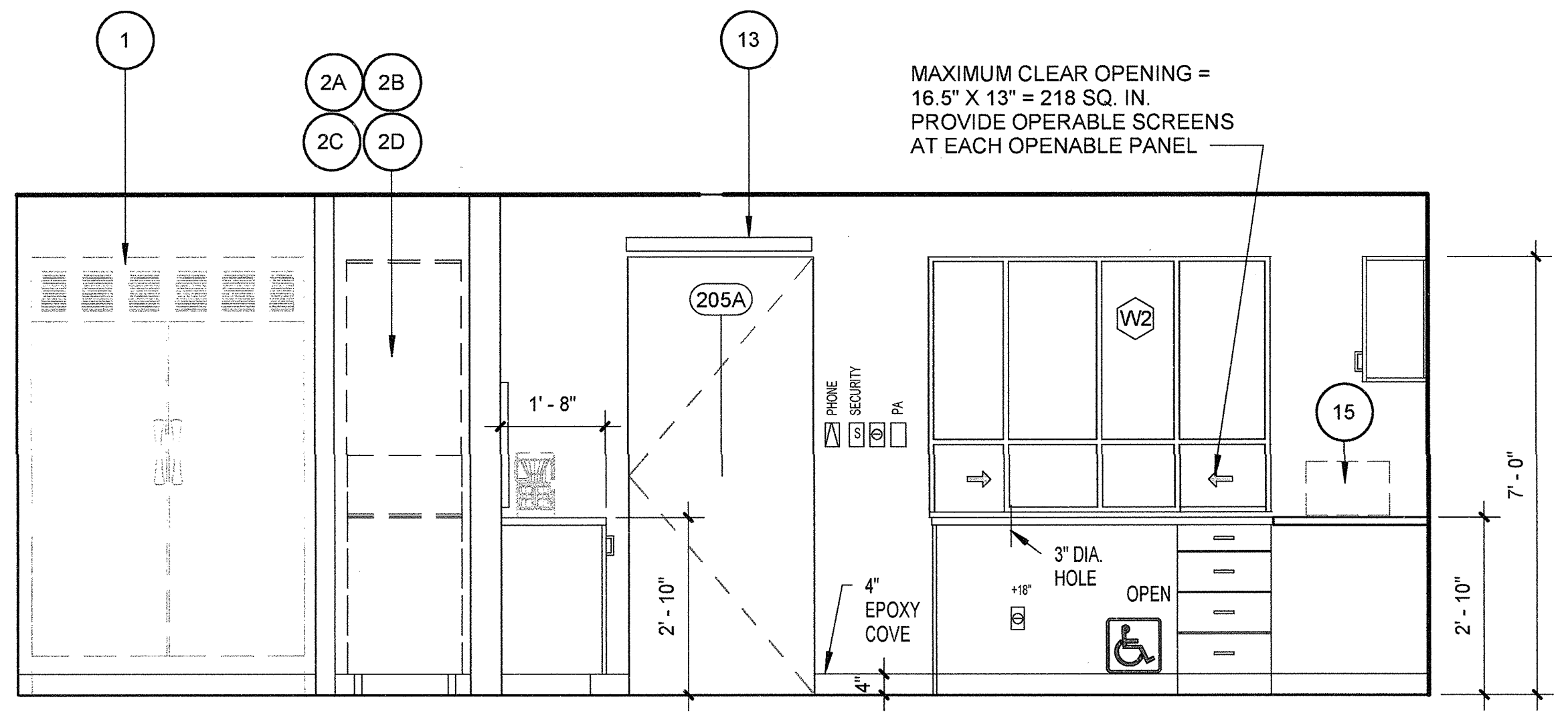
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A400
SHEET TITLE:

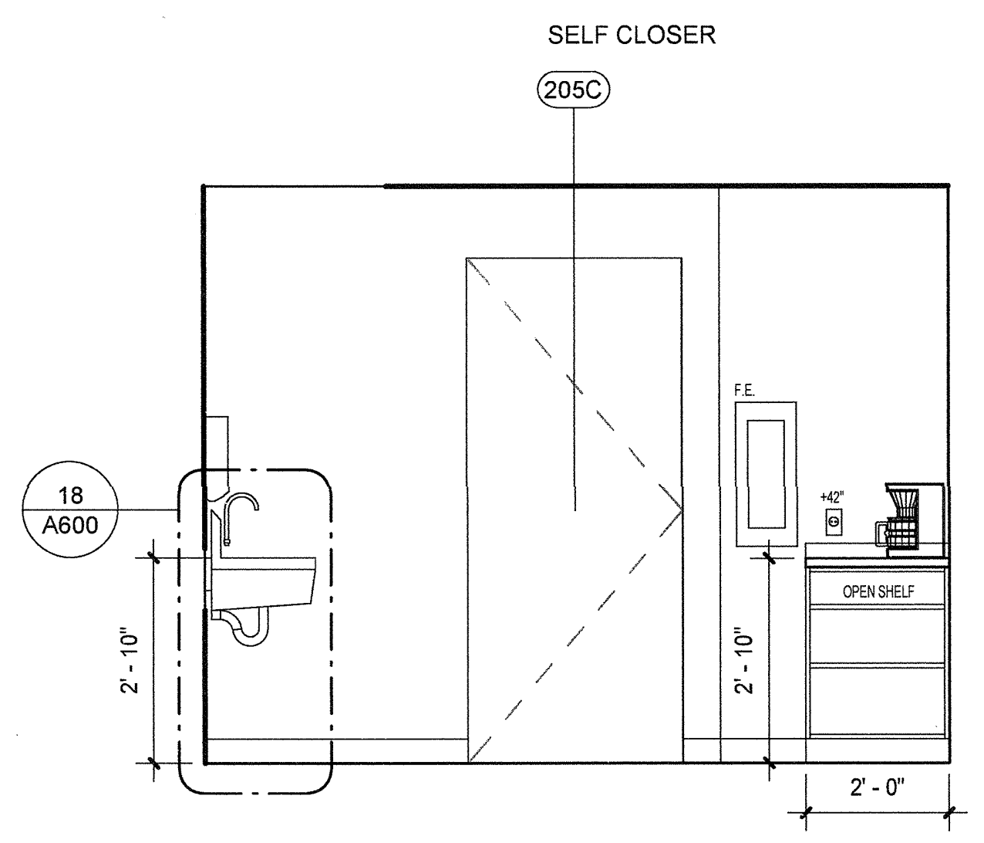
ENLARGED FLOOR PLAN AT CONCESSION ROOM (HOME)

SVA ARCHITECTS

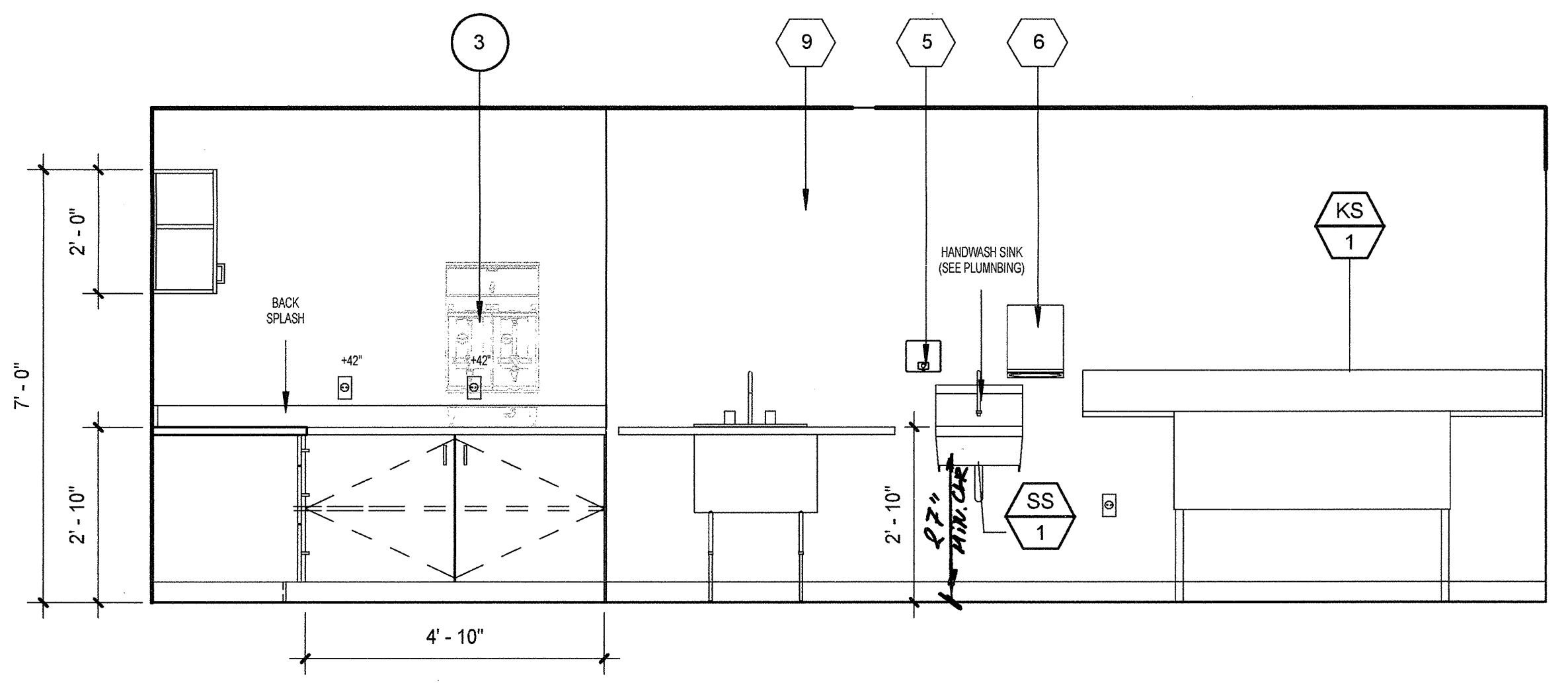
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


1
2A 2B 2C 2D
13
MAXIMUM CLEAR OPENING = 16.5" X 13" = 218 SQ. IN. PROVIDE OPERABLE SCREENS AT EACH OPENABLE PANEL
205A
W2
15
1'-8"
2'-10"
7'-0"
2'-10"
4" EPOXY COVE
3" DIA. HOLE
OPEN

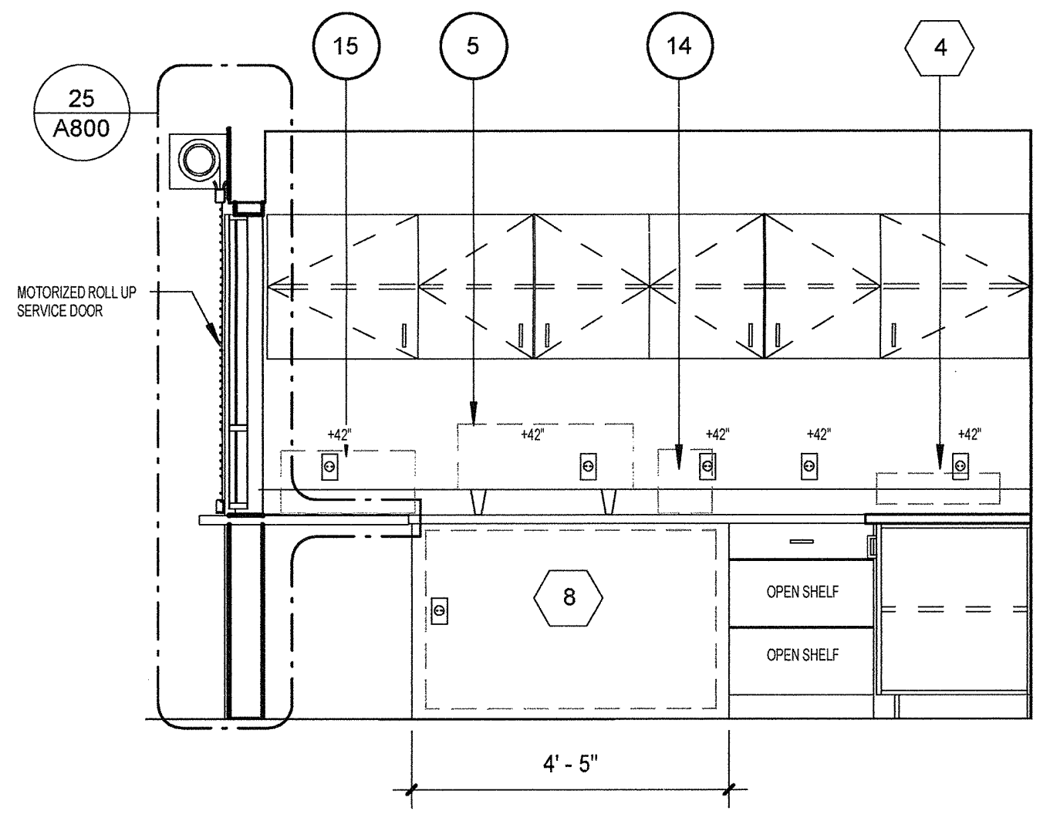
9C CONCESSION ROOM #205 - VIEW C
3/8" = 1'-0"



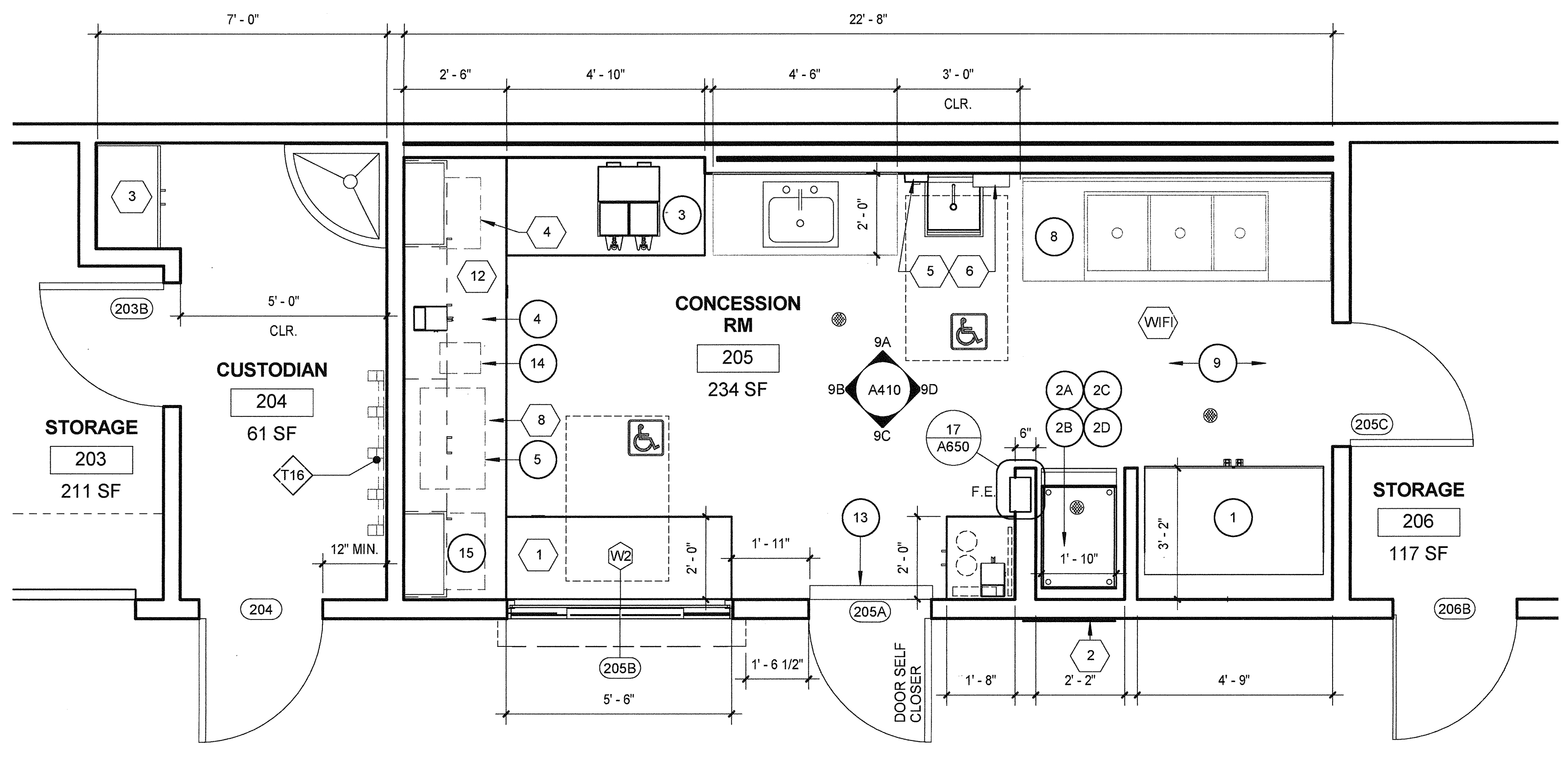
9D CONCESSION ROOM #205 - VIEW D
3/8" = 1'-0"



9A CONCESSION ROOM #205 - VIEW A
3/8" = 1'-0"



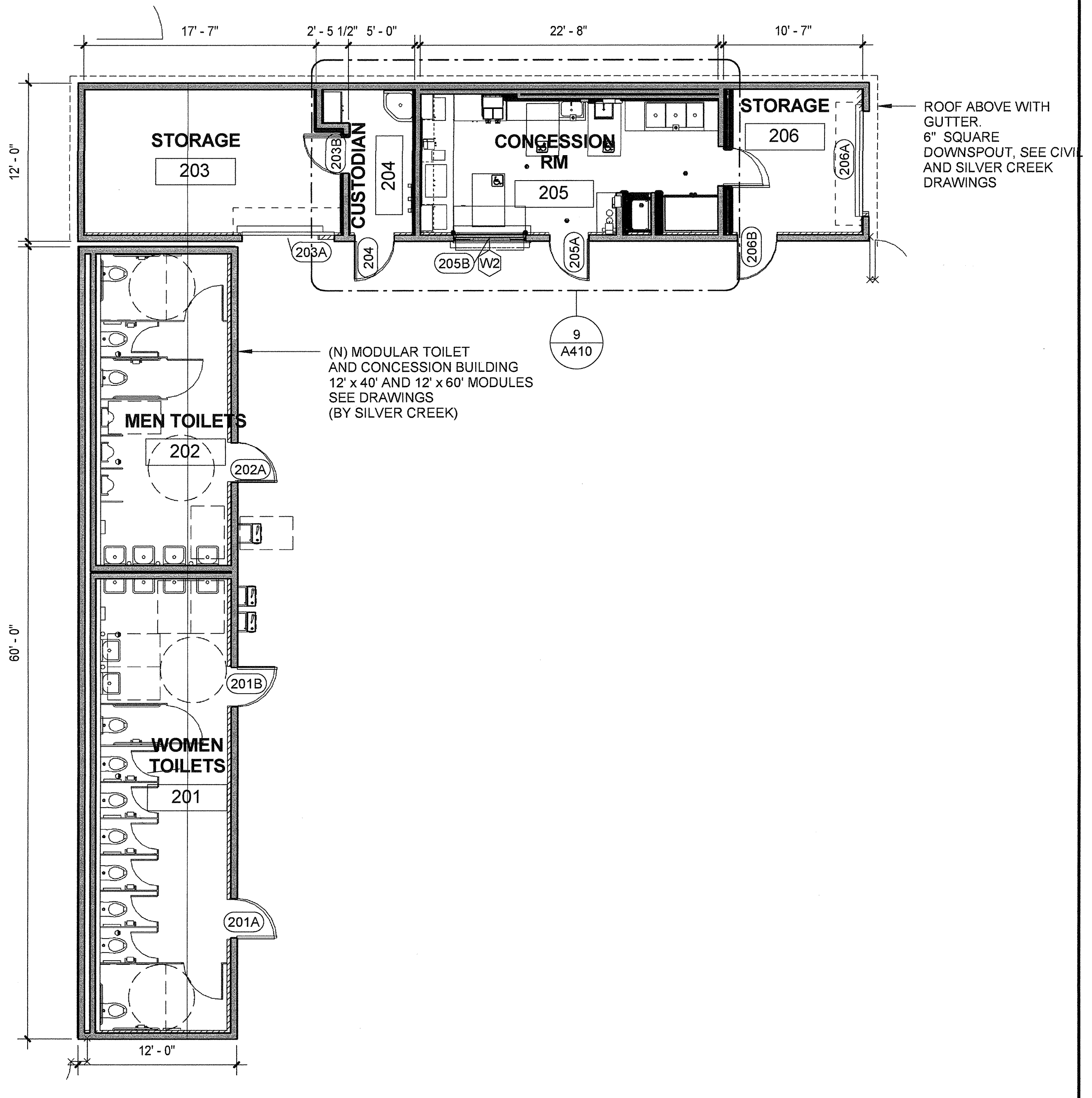
9B CONCESSION ROOM #205 - VIEW B
3/8" = 1'-0"



ENLARGED CONCESSION ROOM #205 (VISITOR) 3/8" = 1'-0" 9

ITEM NUMBER		SMACMA NUMBER	WEIGHT LBS.	COLD WATER SIZE IN INCH.	HOT WATER SIZE IN INCH.	HOT WATER GPH	DIRECT DRAIN SIZE IN INCH.	INDIRECT DRAIN SIZE IN INCH.	
1	REFRIGERATOR (O.F.O.I.) MNFTR: TRAULSEN G-SERIES REACH-IN REFRIGERATORS / SELF-CONTAINED MODEL #G20010	11	710						115V, 1 PHASE, 80 Hz, 7.6A
2A	ICE MAKER W/ BIN ICE MAKER SLIM-LINE MODULAR CRESCENT CUBER (O.F.O.I.) MNFTR: HOSHIZAKI AIR-COOLED 1 PHASE MODEL #KM-340MAH	11	430	0.375				0.5	
2B	CLEANING SYSTEM (PART OF ITEM 2A)								
2C	ICE MAKER ACCESSORIES								
2D	FILTER SYSTEM, ICE MAKER								
3	COUNTERTOP ICE CREAM MACHINE (O.F.O.I.) MNFTR: BUNN MODEL ULTRA-2 HP MANUAL FILL								
4	UNDER COUNTER SODA REFRIGERATOR (O.F.O.I.) MNFTR: TRUE FOOD MODEL #TUC-48-ADA-HC								
5	FOOD WARMER (O.F.O.I.) MNFTR: HATCO - SPLIT DRAWER WARMER MODEL #HDW-1R2								
6	S/S POT SINK ASSEMBLY	2	400	3/4"	3/4"	135		FS	DIRECT DRAINAGE
7	SINGLE SPECIALTY CHEESE WARMER BY STAR (O.F.O.I.)								
8	HOT DOG ROLLER GRILL (O.F.O.I.) MNFTR:NEMCO MODEL #8027SX								
9	COFFEE MAKER								
10	ONION SLICER (MANUAL)								
11	CURTAIN AIR MARS MODEL # N236-1UA								1 PHASE / 5.1 AMPS / 120 VOLTAGE WIRE THRU DOOR ACTIVATED MICRO-SWITCH

EQUIPMENT SCHEDULE


17'-7"
2'-5 1/2"
5'-0"
22'-8"
10'-7"
12'-0"
60'-0"
12'-0"
STORAGE
203
CUSTODIAN
204
CONCESSION RM
205
STORAGE
206
203A
203B
205A
205B
206A
206B
W2
9
A410
MEN TOILETS
202
202A
WOMEN TOILETS
201
201A
201B
ROOF ABOVE WITH GUTTER 6" SQUARE DOWNSPOUT, SEE CIVIL AND SILVER CREEK DRAWINGS
(N) MODULAR TOILET AND CONCESSION BUILDING 12' x 40' AND 12' x 60' MODULES SEE DRAWINGS (BY SILVER CREEK)

MODULAR FLOOR PLAN (VISITOR) 1/8" = 1'-0" 6

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CUSTODIAN 101	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 102	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 103	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 104	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 105	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 106	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 201	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 202	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 203	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CUSTODIAN 204	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 205	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 206	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
PUMP HOUSE 111	CONC	4" TS	P	P	P	P	-	-	NO CEILING
TICKET BOOTH 112	LVT	4" TS	P	P	P	P	CL	9'- 0"	

FLOOR FINISHES:

CONC	EXPOSED AND SEALED CONCRETE SLAB INSTALLED WITH WALL BASE B-1
EPX	EPOXY RESINOUS FLOORING BY TNEMEC. SERIES 237 | POWER-TREAD - SLIP RESISTANT COLOR: CUSTOM, AS SELECTED BY ARCHITECT
LVT	MOHAWK, BOLDER 888 SCHIST, LVT SIZE 36" X 36" OR MOHAWK, SHIKUMEN C0005, MODEL #945 MEDITATION, VINYL TILE SIZE 18" X 36"

WALL MATERIAL

FRP-1	FIBERGLASS REINFORCED PANELS MARLITE, COLOR TBD .FULL HEIGHT WALL
MW	METAL WALL PANELS PER FOOD SERVICE DRAWINGS

CEILING TILE:

CP	'CLEAN ROOM VL' WASHABLE, SMOOTH AND NON ABSORBENT BY ARMSTRONG, HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
CL	'FINE FISSURED 1828' BY ARMSTRONG,HIGH NRC 15/16" SQUARE, TILE SIZE 24 X 24 or SIMIALR
HC	PAINTED GYPSUM BOARD

COUNTERTOP FINISHES:

SS-1	BRUSHED STAINLESS STEEL COUNTERTOPS
PL-1	PLASTIC LAMINATE COUNTERTOP: NEVAMAR, MAZE SHIBORI SH2002T

WALL FINISHES:

P	GENERAL AREA PAINT: DUNN EDWARDS, DEW342 BABY'S BREATH
P-2	PAINT SEMI-GLOSS

WALL BASE:

4" TS	4" COVED BASE,BURKE, DUSK BLUE #520
SC	EPOXY 4" COVED BASE, SEE DETAIL A/A400

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-1
2. PUMP HOUSE TO HAVE NO CEILING.
3. ALL CONCESSION ROOMS TO HAVE STAINLESS STEEL COUNTERTOP FINISH.
4. EPOXY UNDER THE EQUIPMENT AT CONCESSION ROOMS TO BE SMOOTH SURFACE RESINOUS FLOORING BY TNEMEC,

FINISH SCHEDULE

1	STAINLESS STEEL COUNTERTOP - TYPICAL AT ALL CONCESSION ROOMS
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6	PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION BOBRICK B-2620 STAINLESS STEEL SURFACE-MOUNTED.
7	MOP STRIP, BOBRICK B-223x24
8	OPENING AT LOWER CABINET FOR SODA MACHINE - SEE KEY NOTE 4 AND SEE ELEVATION.
9	FRP PANEL - FULL HEIGHT (SEE SPECFIFCATIONS)
10	UPPER CABINET
11	LOWER CABINET - STAINLESS COUNTERTOP
12	A/C AT CONCESSION ROOMS ONLY
13	FIRE EXTINGUISHER CABINET PER DET. 17/A650

KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-15301
JAN. 31, 2019
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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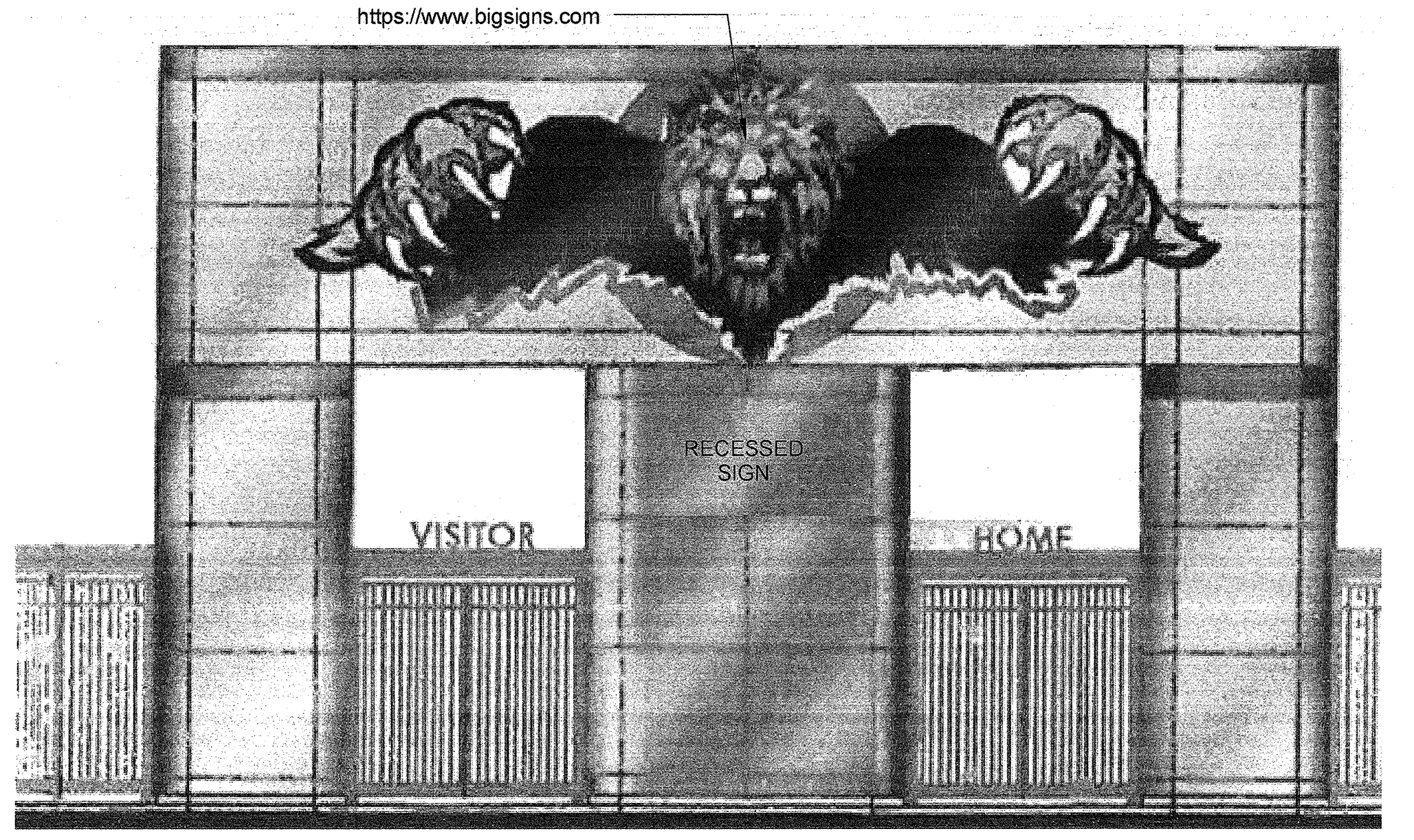
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated
SHEET NUMBER: A410
SHEET TITLE:

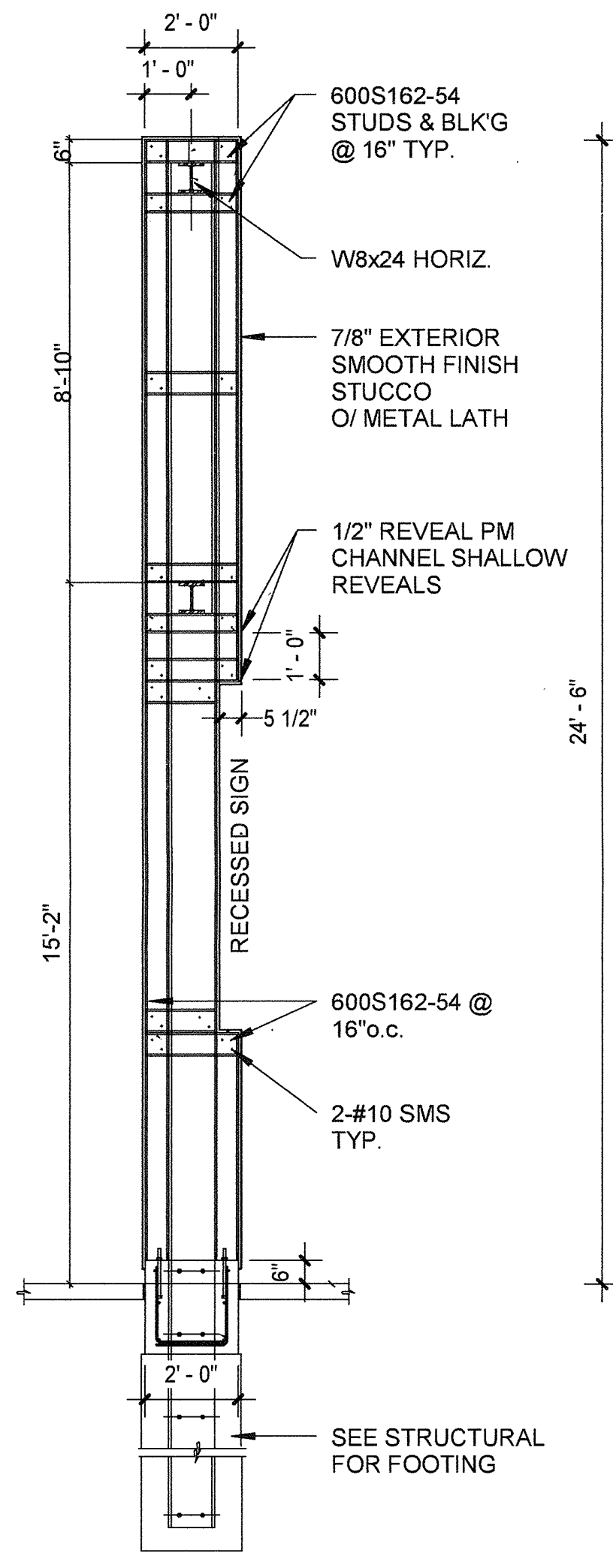
ENLARGED FLOOR PLAN AT CONCESSION ROOM (VISITOR)

SVA ARCHITECTS

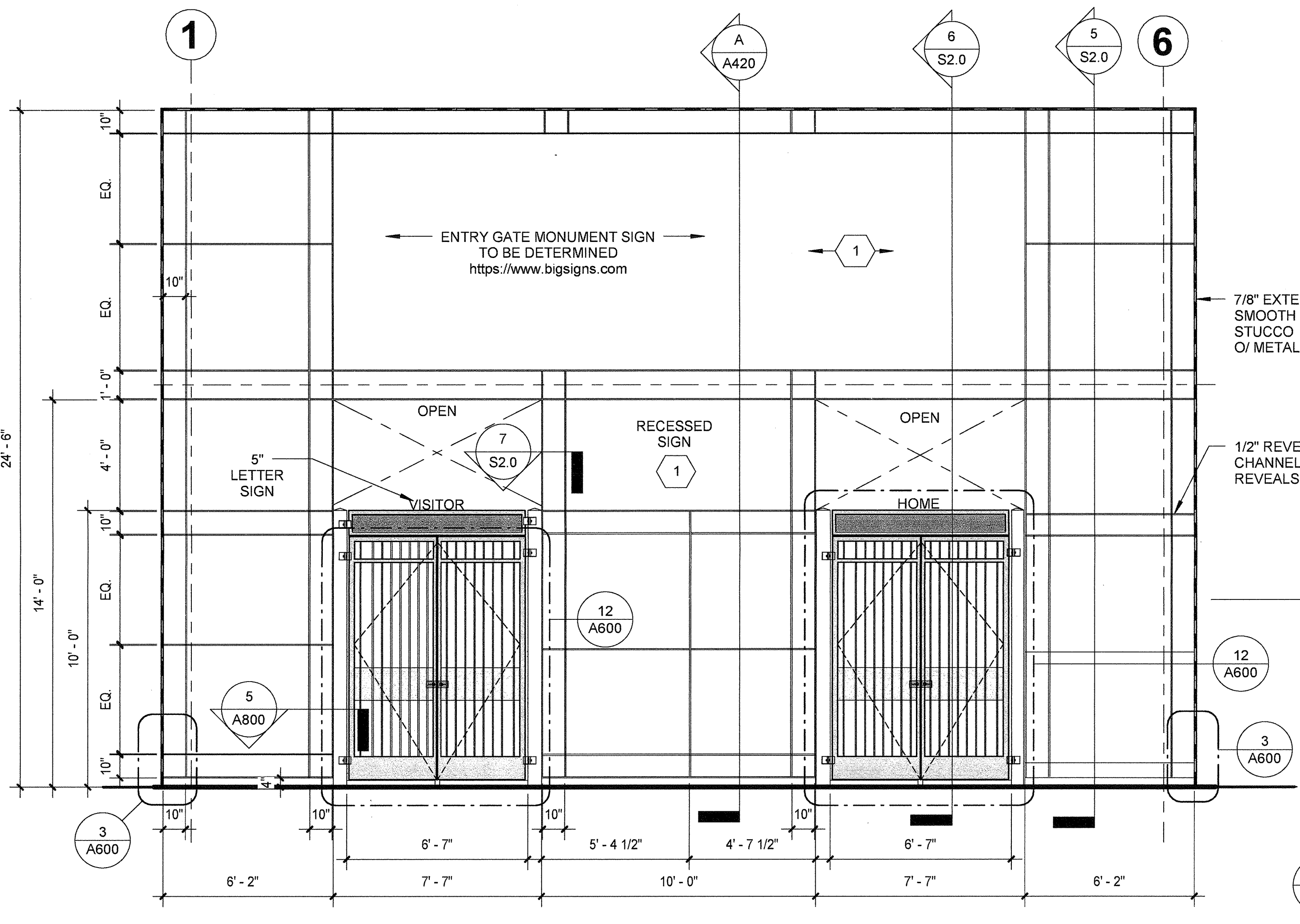
3 MacArthur Place, Suite 850
Santa Ana, CA 92707
T (949) 809-3380
WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU



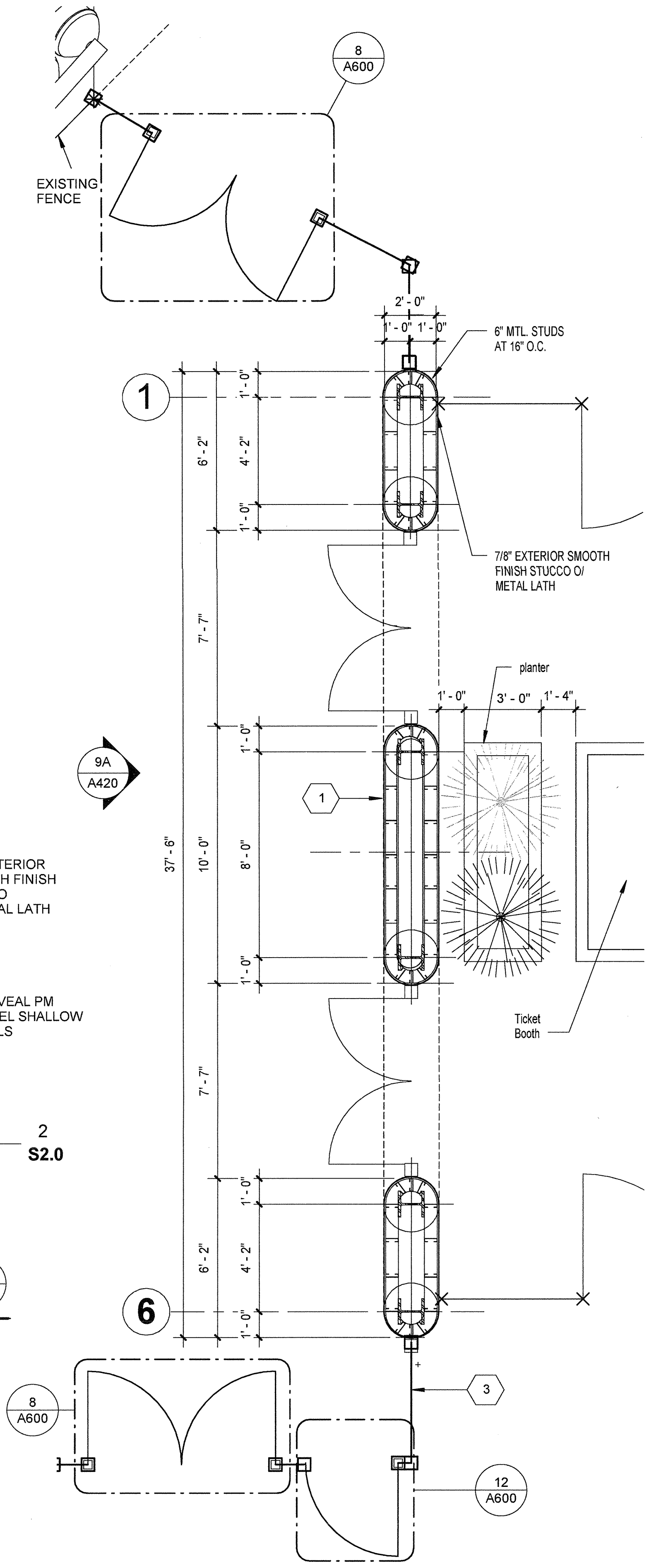
3D ENTRY GATE MONUMENT


2' - 0"
1' - 0"
6"
8'-10"
15'-2"
600S162-54 STUDS & BLK'G @ 16" TYP.
W8x24 HORIZ.
7/8" EXTERIOR SMOOTH FINISH STUCCO O/ METAL LATH
1/2" REVEAL PM CHANNEL SHALLOW REVEALS
1' - 0"
5 1/2"
RECESSED SIGN
600S162-54 @ 16"o.c.
2-#10 SMS TYP.
6"
2' - 0"
SEE STRUCTURAL FOR FOOTING

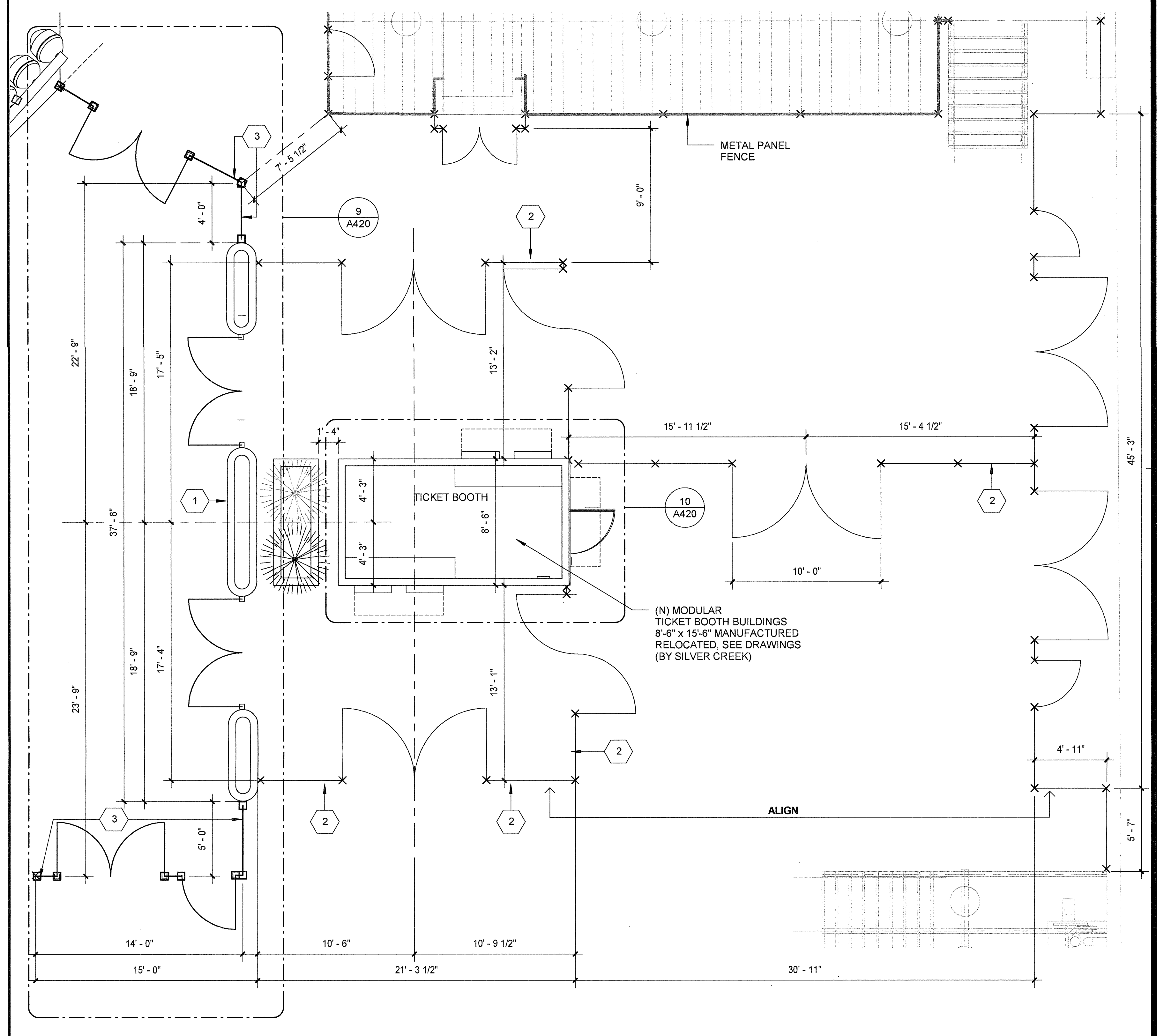
A **SECTION**
1/4" = 1'-0"



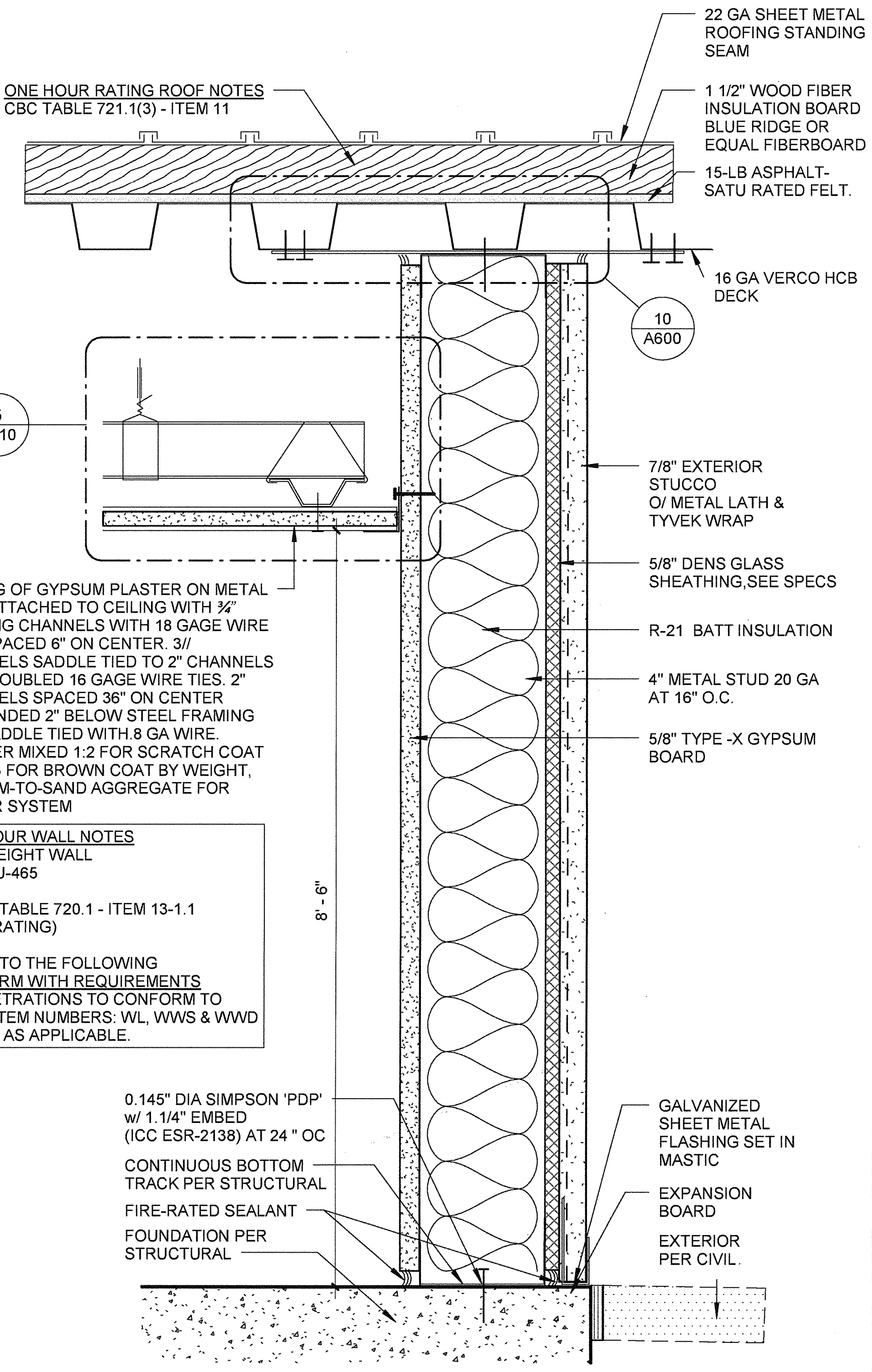
9A **ENTRY GATE MONUMENT ELEVATION**
1/4" = 1'-0"



ENLARD GATE MONUMENT ENTRANCE
1/4" = 1'-0" | 9



ENTRY GATE MONUMENT PLAN
3/16" = 1'-0" | 3


22 GA SHEET METAL ROOFING STANDING SEAM
1 1/2" WOOD FIBER INSULATION BOARD BLUE RIDGE OR EQUAL FIBERBOARD
15-LB ASPHALT-SATU RATED FELT.
16 GA VERCO HCB DECK
10 / A600
5 / A610
7/8" EXTERIOR STUCCO O/ METAL LATH & TYVEK WRAP
5/8" DENS GLASS SHEATHING,SEE SPECS
R-21 BATT INSULATION
4" METAL STUD 20 GA AT 16" O.C.
5/8" TYPE -X GYPSUM BOARD
8' - 6"
0.145" DIA SIMPSON 'PDP' w/ 1.1/4" EMBED (ICC ESR-2138) AT 24 " OC
CONTINUOUS BOTTOM TRACK PER STRUCTURAL
FIRE-RATED SEALANT
FOUNDATION PER STRUCTURAL
GALVANIZED SHEET METAL FLASHING SET IN MASTIC
EXPANSION BOARD
EXTERIOR PER CIVIL.

ONE HOUR RATING ROOF NOTES
CBC TABLE 721.1(3) - ITEM 11

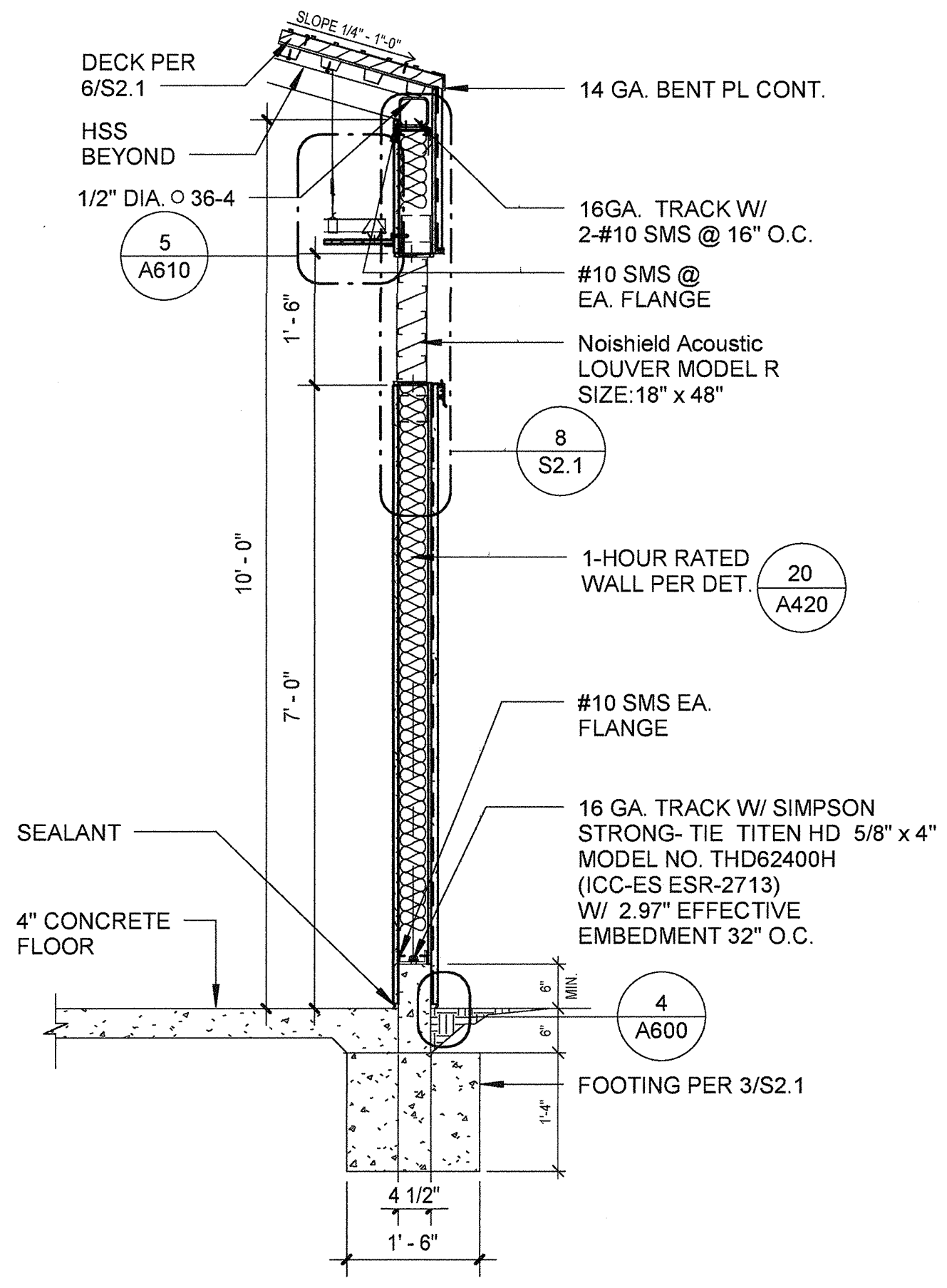
CEILING OF GYPSUM PLASTER ON METAL LATH ATTACHED TO CEILING WITH ¾" FURRING CHANNELS WITH 18 GAGE WIRE TIES SPACED 6" ON CENTER. 3// CHANNELS SADDLE TIED TO 2" CHANNELS WITH DOUBLED 16 GAGE WIRE TIES. 2" CHANNELS SPACED 36" ON CENTER SUSPENDED 2" BELOW STEEL FRAMING AND SADDLE TIED WITH.8 GA WIRE. PLASTER MIXED 1:2 FOR SCRATCH COAT AND 1:3 FOR BROWN COAT BY WEIGHT, GYPSUM-TO-SAND AGGREGATE FOR 1-HOUR SYSTEM

ONE HOUR WALL NOTES
FULL HEIGHT WALL
A. U.L. U-465
OR
B. CBC TABLE 720.1 - ITEM 13-1.1
(1 HR. RATING)

REFER TO THE FOLLOWING
CONFORM WITH REQUIREMENTS
1. PENETRATIONS TO CONFORM TO UL SYSTEM NUMBERS: WL, WWS & WWD SERIES AS APPLICABLE.

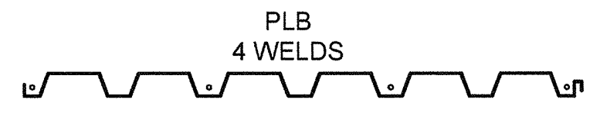
1. REFER TO SPECIFICATION DIVISIONS 15 AND 16 FOR HVAC, PLUMBING, AND ELECTRICAL PENETRATION OF WALLS.
2. CONTRACTOR USING AN APPROVED EQUAL PRODUCT MUST SUBMIT FOR ARCHITECTS REVIEW A WALL TYPE SHEET. THIS SUBMITTAL TO INDICATE PROPER STUD GAUGE ND SPACING PER THE SPAN CAPACITY OF THE SUBSTITUTED PRODUCT. AT NO TIME SHOULD THE STUD GAUGE OR SPACING BE LESS THAN WHAT IS SHOWN ON HIS SHEET. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS FOR SPECIFIC FURRED OUT WALLS PER PLAN AND DETAILS.

ONE HOUR WALL
3" = 1'-0" | 20


SLOPE 1/4" - 1"-0"
DECK PER 6/S2.1
HSS BEYOND
1/2" DIA. ○ 36-4
5 / A610
14 GA. BENT PL CONT.
16GA. TRACK W/ 2-#10 SMS @ 16" O.C.
#10 SMS @ EA. FLANGE
Noishield Acoustic LOUVER MODEL R SIZE:18" x 48"
8 / S2.1
1' - 6"
10' - 0"
7' - 0"
1-HOUR RATED WALL PER DET. 20 / A420
#10 SMS EA. FLANGE
16 GA. TRACK W/ SIMPSON STRONG- TIE TITEN HD 5/8" x 4" MODEL NO. THD62400H (ICC-ES ESR-2713) W/ 2.97" EFFECTIVE EMBEDMENT 32" O.C.
SEALANT
4" CONCRETE FLOOR
6" MIN.
6"
4 / A600
FOOTING PER 3/S2.1
1'-4"
4 1/2"
1' - 6"

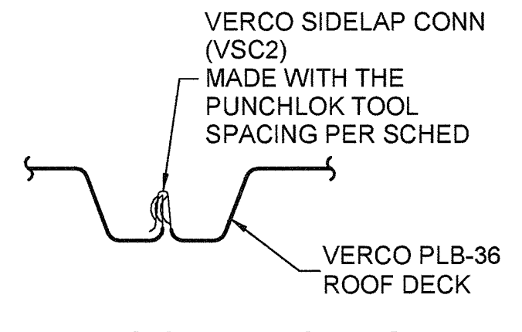
SECTION AT PUMP HOUSE ROOF
1/2" = 1'-0" | 18

SCHEDULE				
MARK	DECKING	# OF WELDS [2]	SPACING SIDELAP ATTACHMENT	BOUNDARY WELD @ PARALLEL [3]
D-1	20 GA [1]	4	6"	12" OC



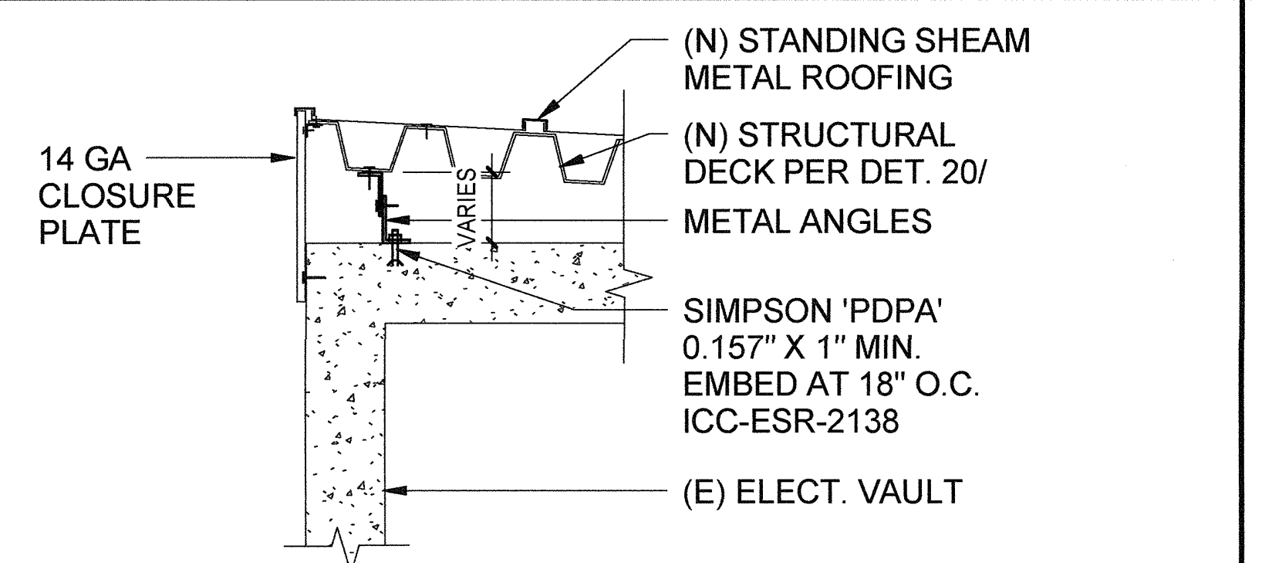
WELD PATTERN TO SUPPORTS

NOTES:
1. ROOF METAL DECK SHALL BE 1 1/2" VERCO PLB-36 WITH THE PUNCH-LOK SIDELAP SYSTEM, GAGE AS SHOWN ON SCHED AND SHALL COMPLY WITH IAPMO ER-217 IF SUBSTITUTE METAL DECK IS USED, IT SHALL HAVE APPROVED ALLOWABLE SHEAR VALUES EQUAL OR GREATER THAN THOSE SHOWN IN SCHED AND SHALL HAVE EQUIVALENT FIRE RESISTIVE PROPERTIES.
2. METAL DECK SHALL BE WELDED TO SUPPORTS BY 1/2" DIA EFFECTIVE PUDDLE WELDS AT FLUTES AS SHOWN ABOVE.
3. WHERE METAL DECK RUNS PARALLEL TO THE DIAPHRAGM PERIMETER, PLACE 1/2" DIA EFFECTIVE PUDDLE WELDS AT SPACING SHOWN IN SCHEDULE.
4. END OF DECK UNITS SHALL BE LAPPED 2" MINIMUM.
5. SEE DETAILS "A" AT SUPPORTS.

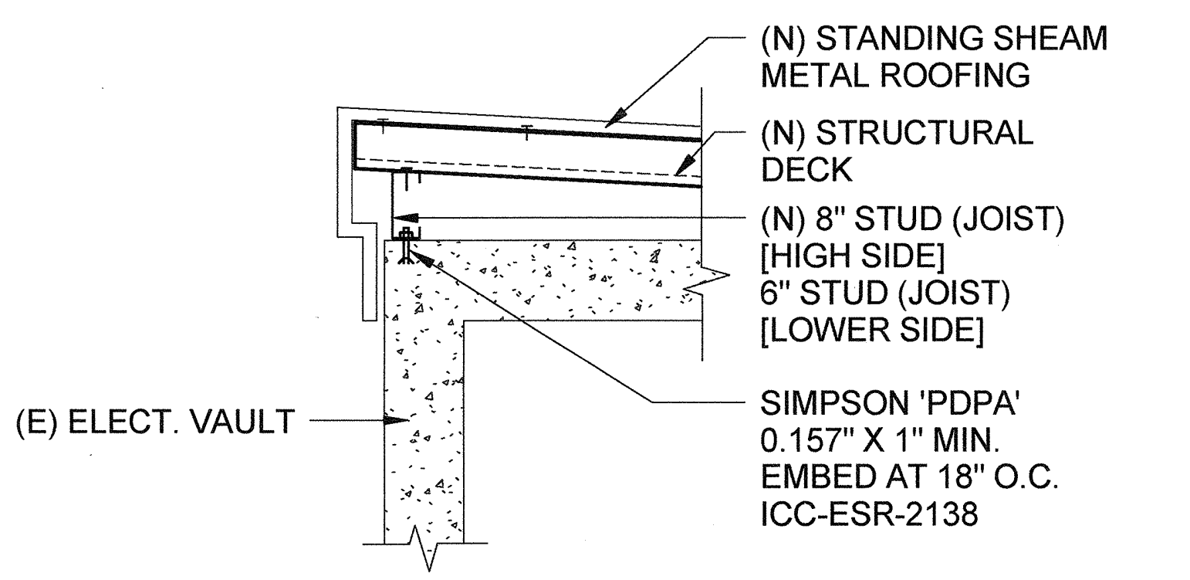

VERCO SIDELAP CONN (VSC2) MADE WITH THE PUNCHLOK TOOL SPACING PER SCHED
VERCO PLB-36 ROOF DECK

VERCO PUNCKLOK SYSTEM SIDELAP (A)

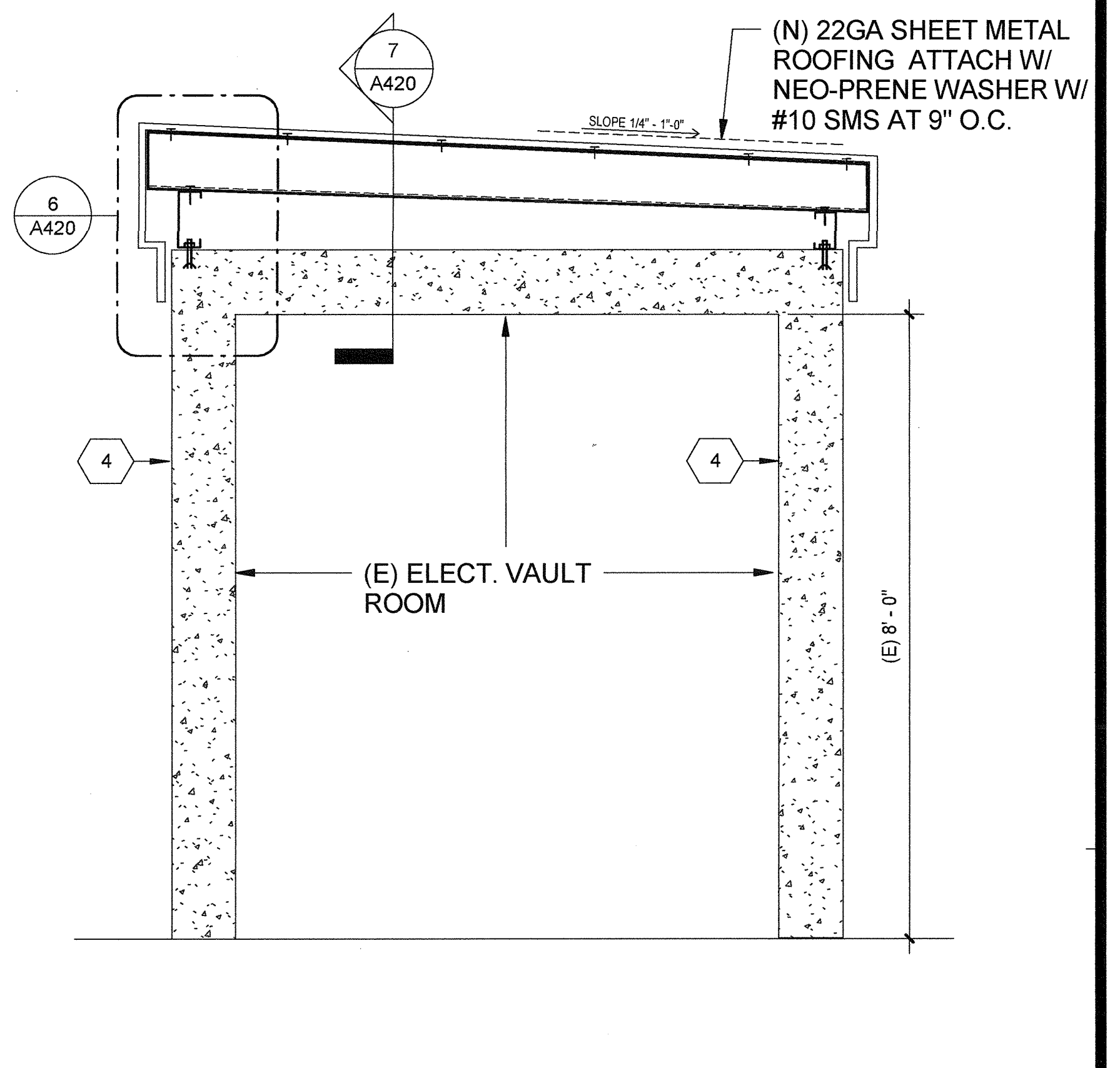
ROOF SYSTEM
1" = 1'-0" | 11


(N) STANDING SHEAM METAL ROOFING
14 GA CLOSURE PLATE
(N) STRUCTURAL DECK PER DET. 20/
VARIES
METAL ANGLES
SIMPSON 'PDPA' 0.157" X 1" MIN. EMBED AT 18" O.C. ICC-ESR-2138
(E) ELECT. VAULT

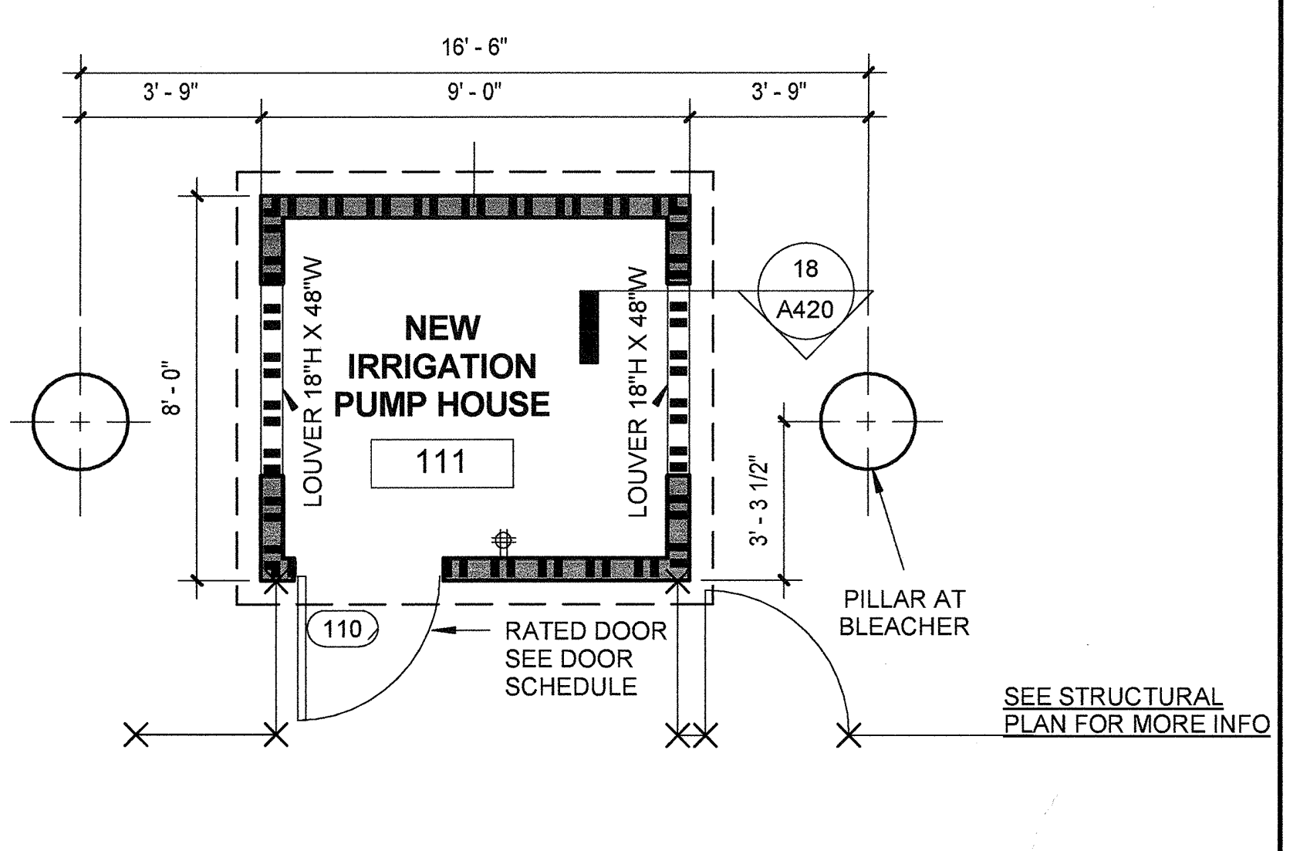
SECTION AT ELECTRICAL NEW ROOF
1/2" = 1'-0" | 7


(N) STANDING SHEAM METAL ROOFING
(N) STRUCTURAL DECK
(N) 8" STUD (JOIST) [HIGH SIDE] 6" STUD (JOIST) [LOWER SIDE]
SIMPSON 'PDPA' 0.157" X 1" MIN. EMBED AT 18" O.C. ICC-ESR-2138
(E) ELECT. VAULT

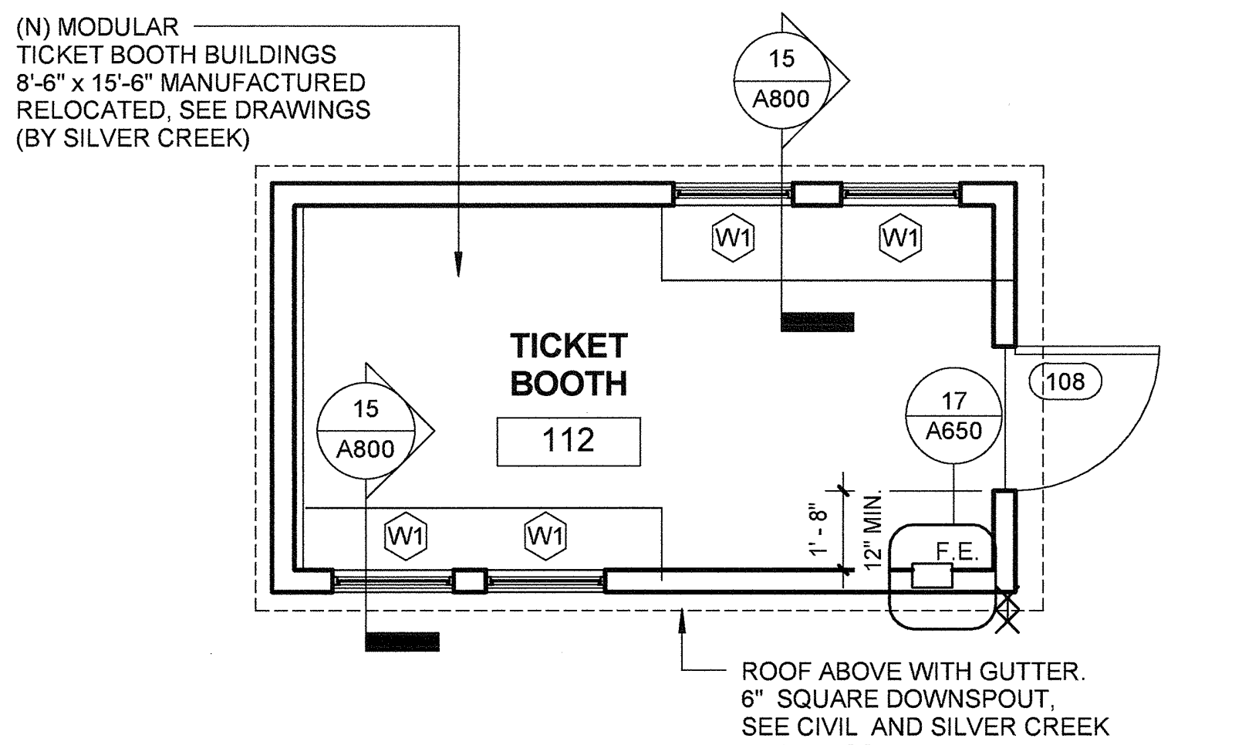
ROOF ATTACHMENT DETAIL
1/2" = 1'-0" | 6


7 / A420
(N) 22GA SHEET METAL ROOFING ATTACH W/ NEO-PRENE WASHER W/ #10 SMS AT 9" O.C.
SLOPE 1/4" - 1"-0"
6 / A420
4
4
(E) ELECT. VAULT ROOM
(E) 8' - 0"

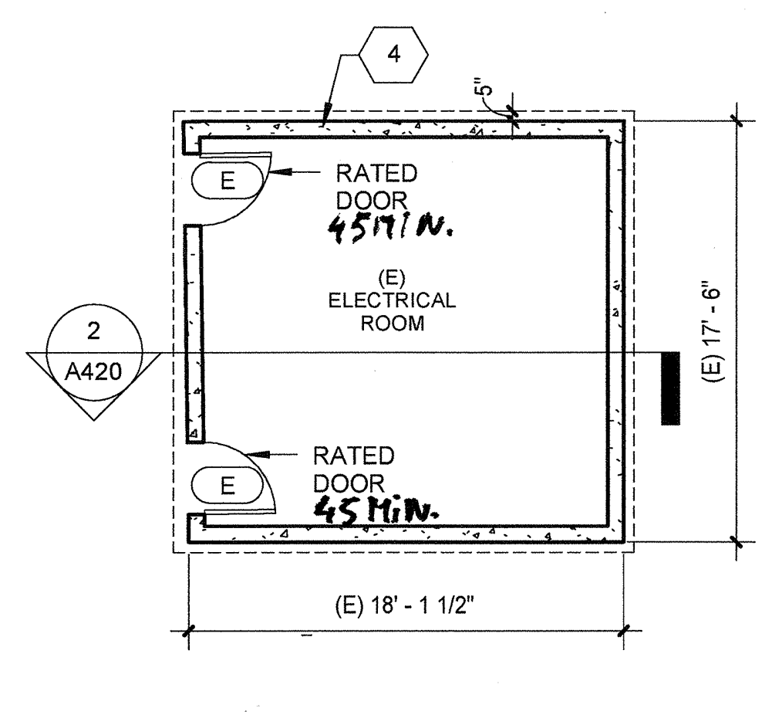
NEW ROOF AT EXISTING ELECTR. ROOM
1/2" = 1'-0" | 2



PUMP HOUSE FLOOR PLAN
1/4" = 1'-0" | 15


(N) MODULAR TICKET BOOTH BUILDINGS 8'-6" x 15'-6" MANUFACTURED RELOCATED, SEE DRAWINGS (BY SILVER CREEK)
15 / A800
W1
W1
TICKET BOOTH
112
15 / A800
17 / A650
108
W1
W1
1' - 8"
12" MIN.
F.E.
ROOF ABOVE WITH GUTTER. 6" SQUARE DOWNSPOUT, SEE CIVIL AND SILVER CREEK DRAWINGS

TICKET BOOTH FLOOR PLAN
1/4" = 1'-0" | 10



EXISTING ELECTRICAL ROOM FLOOR PLAN
1/8" = 1'-0" | 5

1 MONUMENT WALL, SMOOTH PLASTER FINISH OVER PAINT (T.B.D.)
2 8'-0" HEIGHT FENCE PER DETAIL 16 / A600
3 8'-0" HEIGHT ORNAMENTAL FENCE PER DETAIL 13 / A600
4 EXISTING CONCRETE WALL AT EXISTING ELECTRICAL ROOM TO REMAIN. - 1HR RATING -

A320 KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: **3048 TYLER AVENUE, EL MONTE, CA, 91731**

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS [illegible] SS [illegible]
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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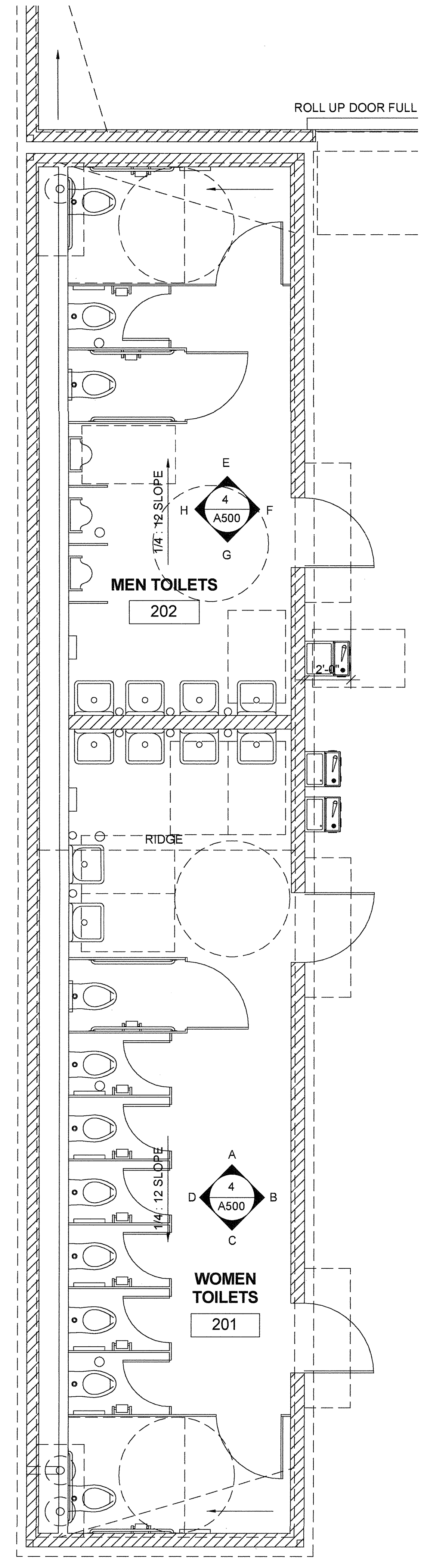
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: **A420**
SHEET TITLE:

ENLARGED FLOOR PLANS AND ELEVATIONS

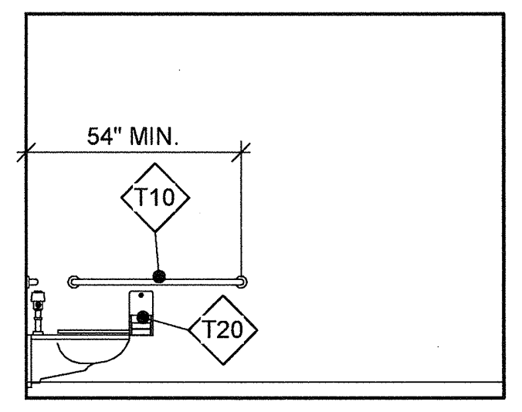
SVA ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

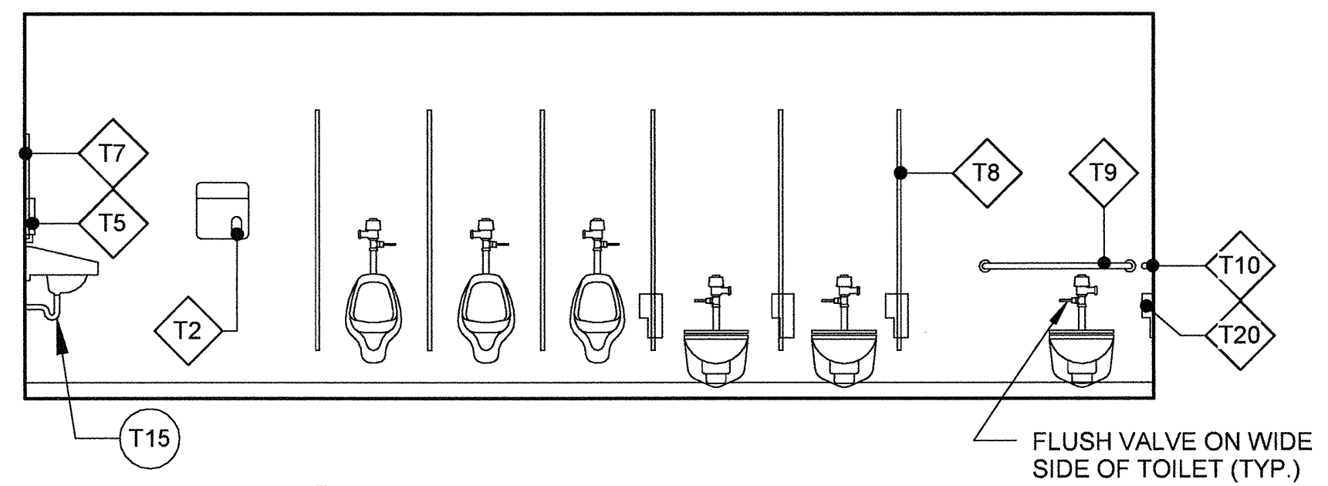


NOTE:
1. REFER TO SHEET _GEN-4 FOR RESTROOM ACCESSIBLITY COMPLIANCE.
2. REFER TO MODULAR SILVER GREEK DRAWINGS FOR DESIGN LAYOUT.

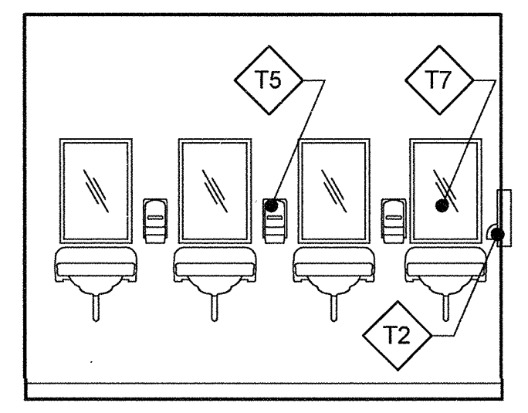
ENLARGED RESTROOM PLAN (VISITOR)
1/4" = 1'-0" 15



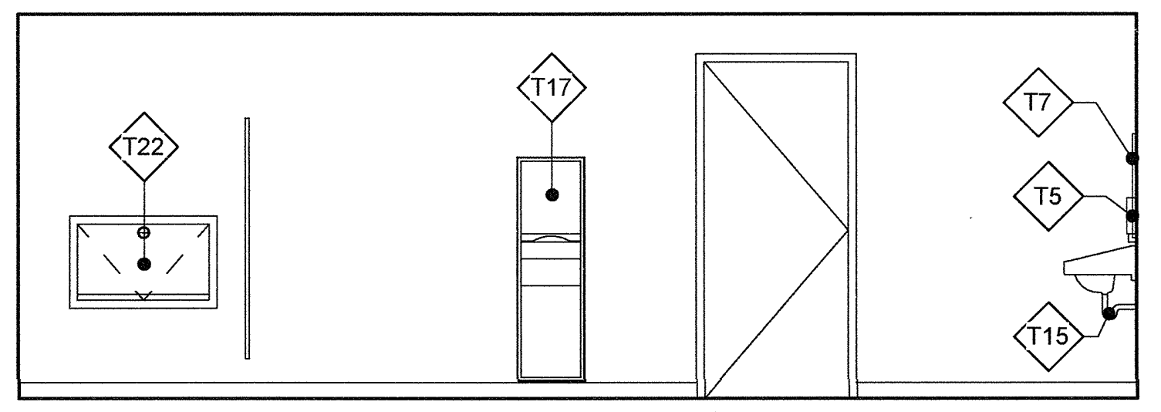
4E MEN VISITOR VIEW F
1/4" = 1'-0"



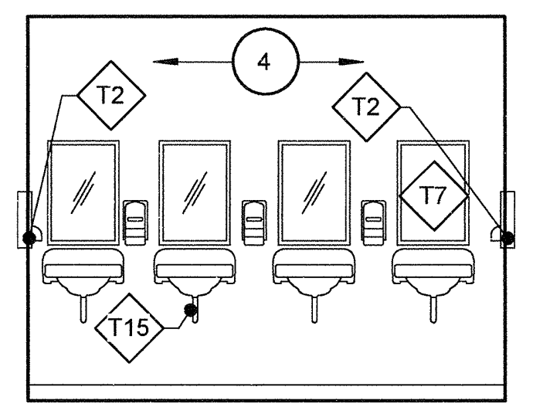
4H MEN VISITOR VIEW E
1/4" = 1'-0"



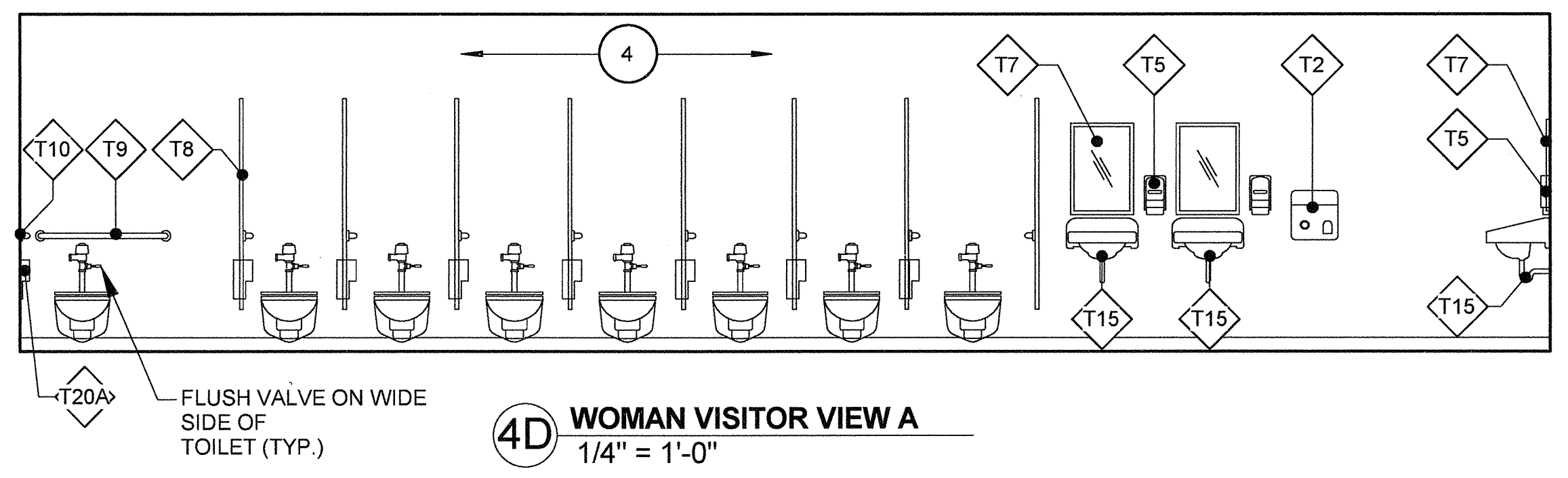
4G MEN VISITOR VIEW H
1/4" = 1'-0"



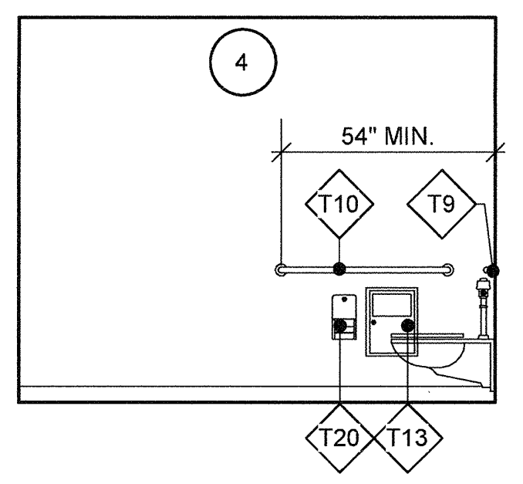
4F MEN VISITOR VIEW G
1/4" = 1'-0"



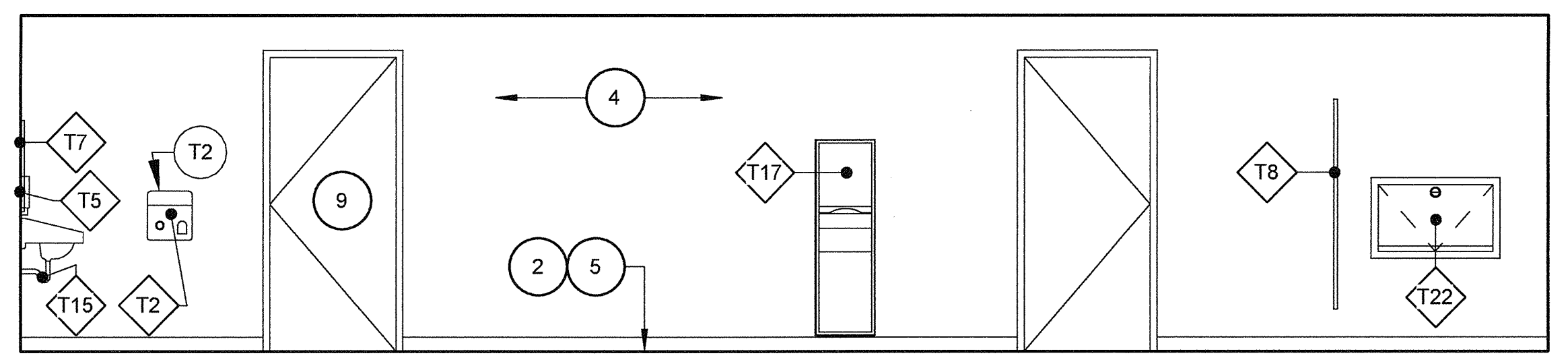
4A WOMAN VISITOR VIEW B
1/4" = 1'-0"



4D WOMAN VISITOR VIEW A
1/4" = 1'-0"



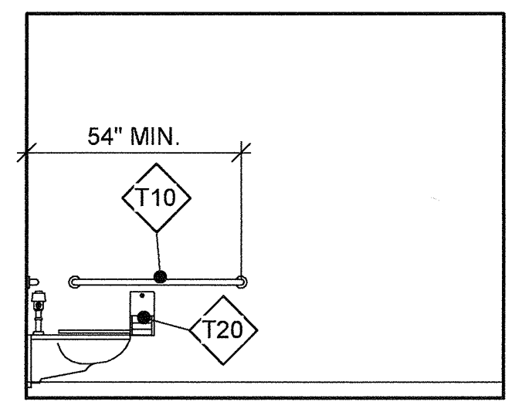
4C WOMAN VISITOR VIEW D
1/4" = 1'-0"



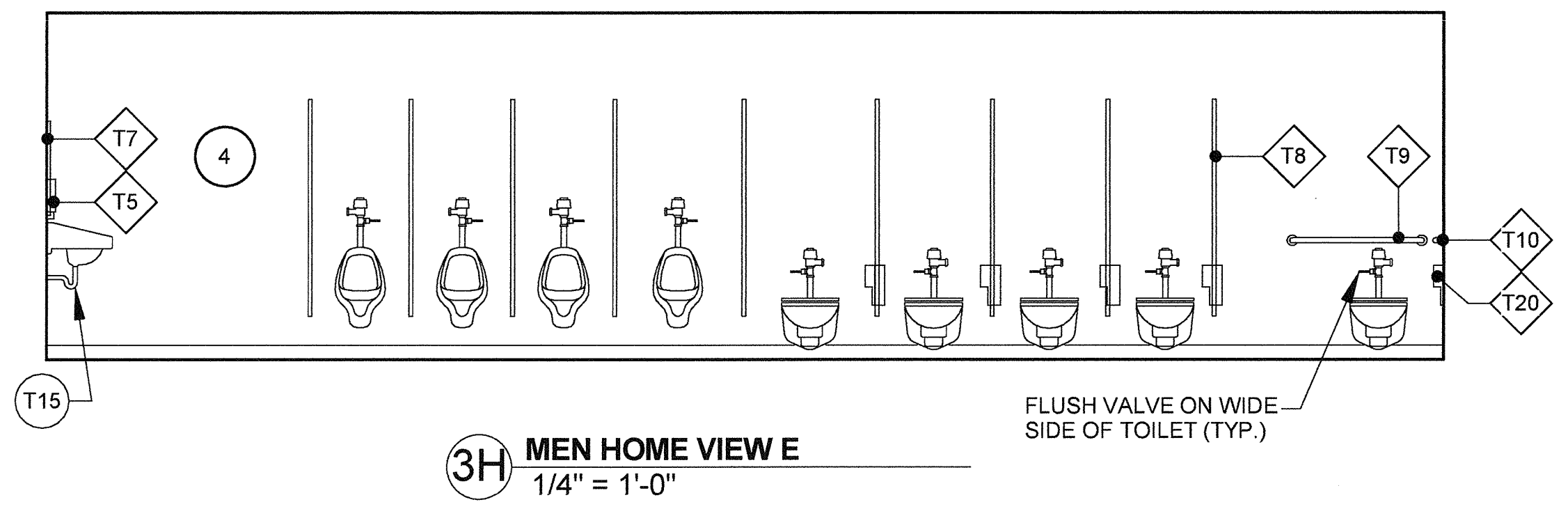
4B WOMAN VISITOR VIEW C
1/4" = 1'-0"

SEE SCHEDULE FOR TOILET ACCESSORIES AND SEE SHEET _GEN-5 FOR ACCESSIBLITY COMPLIANCE

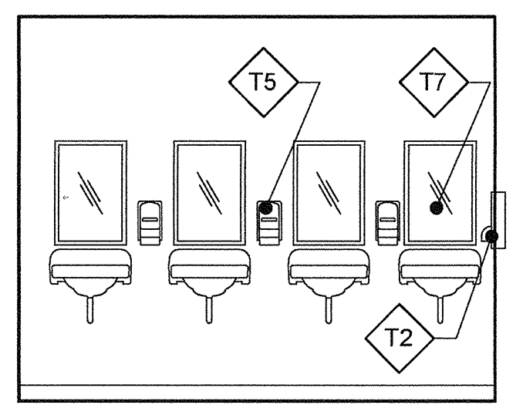
ELEVATIONS AT VISITOR MODULAR TOILET
1/4" = 1'-0" 4



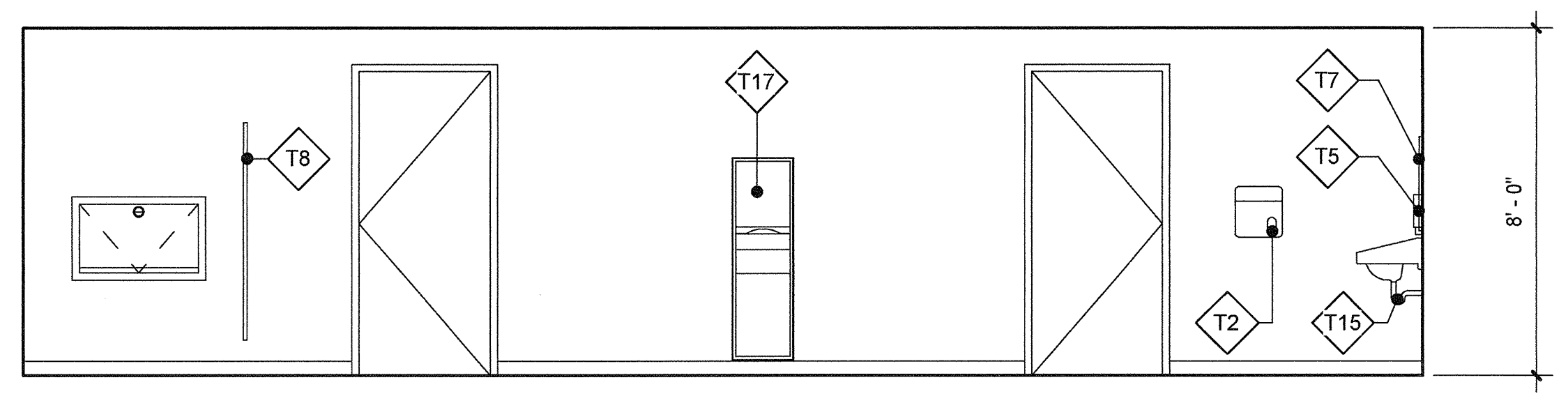
3E MEN HOME VIEW F
1/4" = 1'-0"



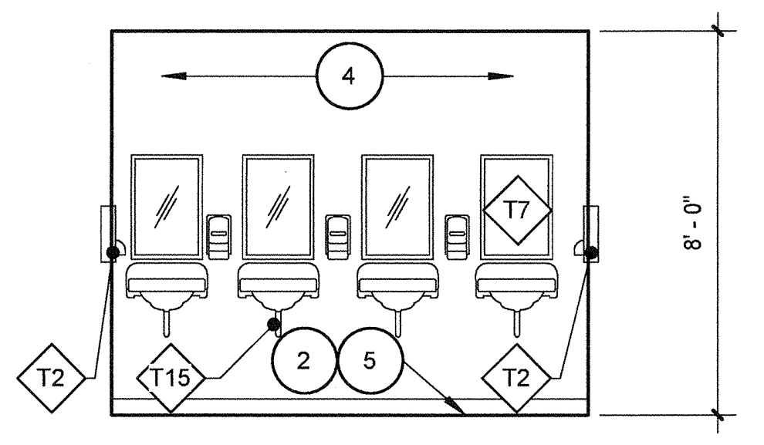
3H MEN HOME VIEW E
1/4" = 1'-0"



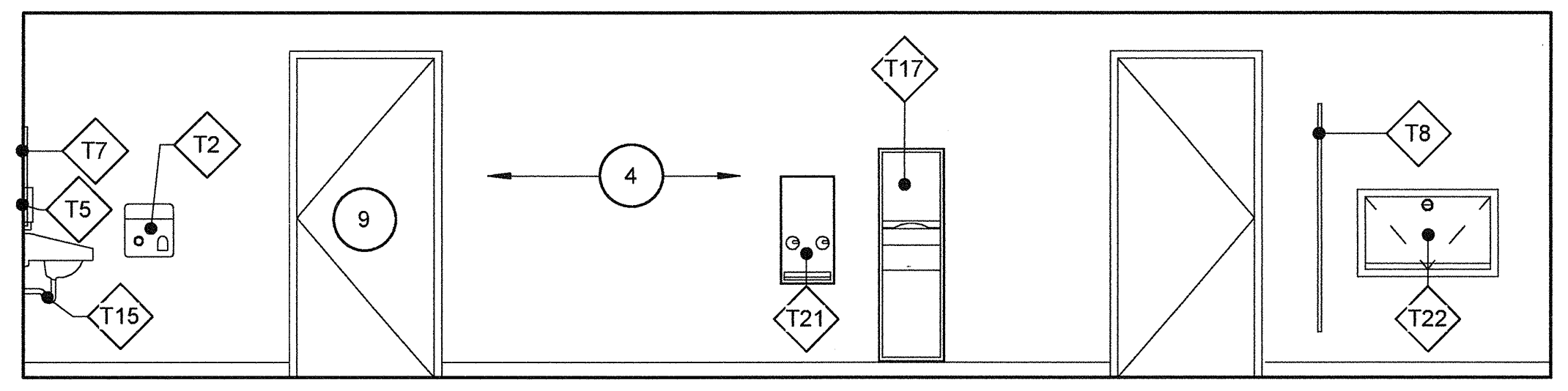
3G MEN HOME VIEW H
1/4" = 1'-0"



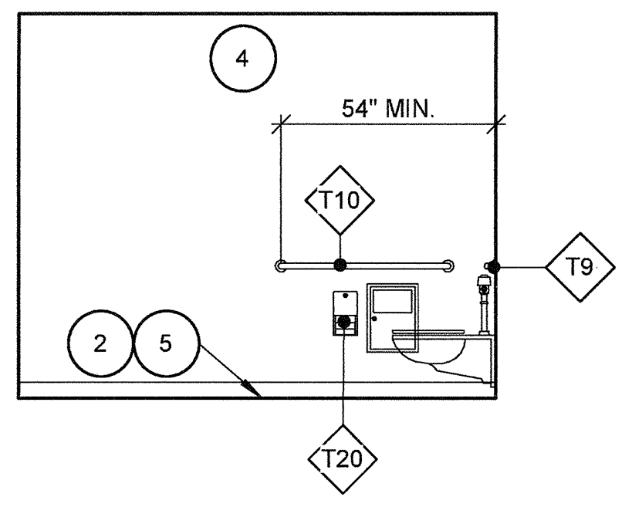
3F MEN HOME VIEW G
1/4" = 1'-0"



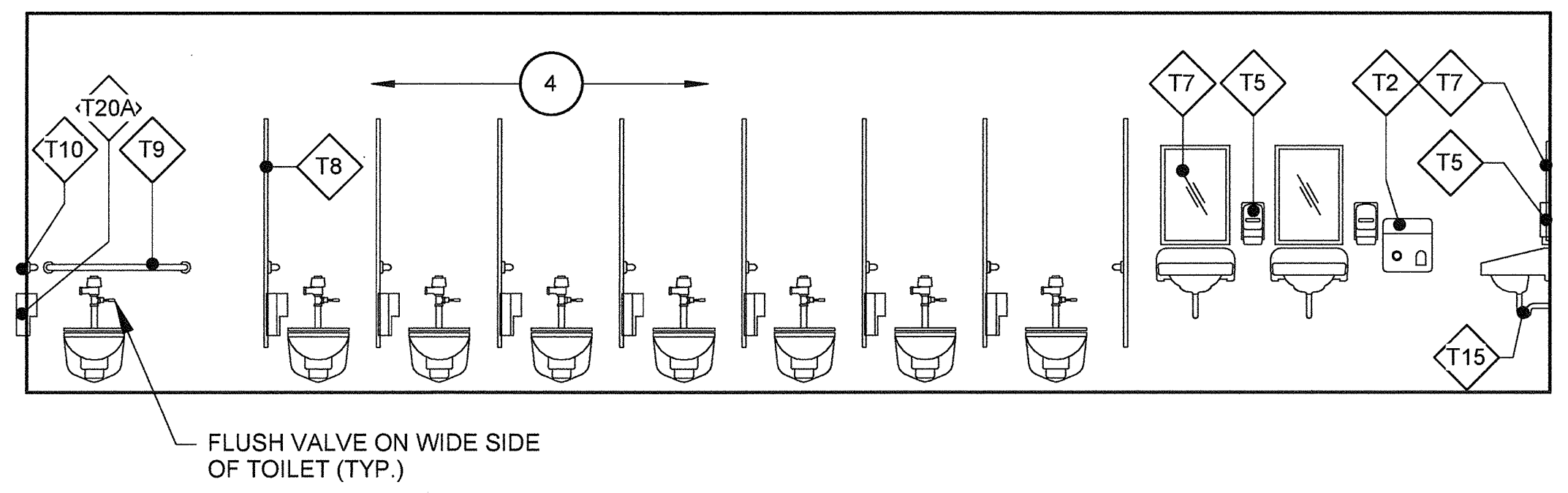
3A WOMAN HOME VIEW B
1/4" = 1'-0"



3B WOMAN HOME VIEW C
1/4" = 1'-0"



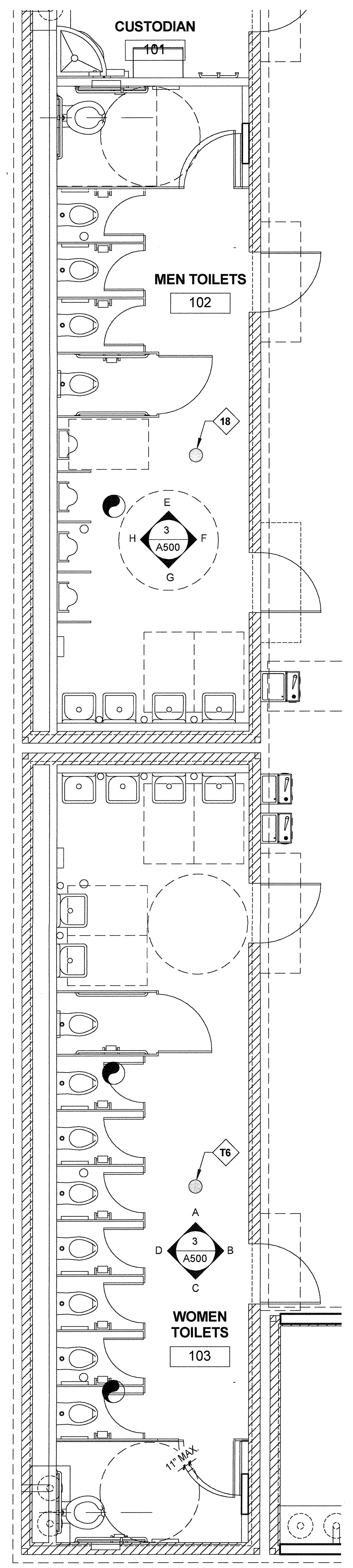
3C WOMAN HOME VIEW D
1/4" = 1'-0"



3D WOMAN HOME VIEW A
1/4" = 1'-0"

SEE SCHEDULE FOR TOILET ACCESSORIES AND SEE SHEET _GEN-5 FOR ACCESSIBLITY COMPLIANCE

ELEVATIONS AT HOME MODULAR TOILET
1/4" = 1'-0" 3



NOTE:
1. REFER TO SHEET _GEN-4 FOR RESTROOM ACCESSIBLITY COMPLIANCE.
2. REFER TO MODULAR SILVER GREEK DRAWINGS FOR DESIGN LAYOUT.

ENLARGED RESTROOM PLAN (HOME)
1/4" = 1'-0" 1

T1	PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION
T2	HAND DRYER, BRADLEY AERIX 2902-287400
T3	SANITARY NAPKIN DISPENSER - 3" MAX. PROJECTION
T4	SEMI-RECESSED WASTE RECEPTACLE WITH 4" MAXIMUM PROJECTION
T5	SOAP DISPENSER - 4" MAXIMUM PROJECTION
T6	FLOOR DRAIN SHALL HAVE MAXIMUM 1/2" OPENINGS (TYP.)
T7	24" X 36" FRAMED MIRROR, BOBRICK B-290 2436
T8	OVERHEAD BRACED PARTITION, SEE SPECS, SEE DET. 14/A-64.41 FOR TYP ATTACHMENT
T9	GRAB BARS FOR ACCESSIBLE TOILET (1-1/4" DIA. STAINLESS STEEL): 36" LENGTH @ REAR WALL (BOBRICK B-5806X36)
T10	GRAB BARS FOR ACCESSIBLE TOILET (1-1/4" DIA. STAINLESS STEEL): 42" LENGTH @ SIDE WALL (BOBRICK B-5806X42)
T11	STANDARD TOILET PAPER DISPENSER
T12	ACCESSIBLE TOILET PAPER DISPENSER- 3" MAXIMUM PROJECTION
T13	SANITARY NAPKIN DISPOSAL, SINGLE COMPARTMENT- 3" MAXIMUM PROJECTION
T14	SANITARY NAPKIN DISPOSAL, DUAL COMPARTMENT
T15	PIPE INSULATION WRAP
T16	MOP STRIP
T17	PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL, BOBRICK B-354
T18	WALL-HUNG SOLID URINAL SCREEN, 42" HIGH X 18" DEEP
T19	TOILET PAPER DISPENSER, NON-ACCESS FACULTY TOILETS
T20	SURFACE MOUNTED TOILET TISSUE DISPENSER, BOBRICK B-35745 FOR WOMEN ONLY WITH TAMPON TRASH DISPENSER.
T20A	SURFACE MOUNTED TOILET TISSUE DISPENSER, BOBRICK B-3471 FOR MEN ONLY.
T21	SEMI-RECESSED SANITARY NAPKIN / TAMPON VENDOR, FREE OPERATION (BOBRICK MODEL #B3706)
T22	RECESSED BABY CHANGING STATION MODEL @ KB110-SSRE HORIZONTAL PER DET.\

* REFER SHEET GEN-4 FOR MOUNTING HEIGHTS AND LOCATIONS FOR ALL ACCESSIBLE RESTROOM ACCESSORIES AND FIXTURES.

TOILET ACCESSORIES

①	WOOD TRIM 1X4 (S4S) PAINT TO MATCH DOOR AND WINDOWS FRAMES
②	EPOXY PAINT
③	EPOXY FLOORING (TNEMEC)
④	FRP WALLS
⑤	CONCRETE
⑥	5/8" PLYWOOD, PAINTED
⑦	SEALED CONCRETE
⑧	ROLL UP DOOR
⑨	DOOR AND HOLLOW METAL FRAME

TOILET KEY NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA
Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A# 03-117117
AC N.N. FLS EY SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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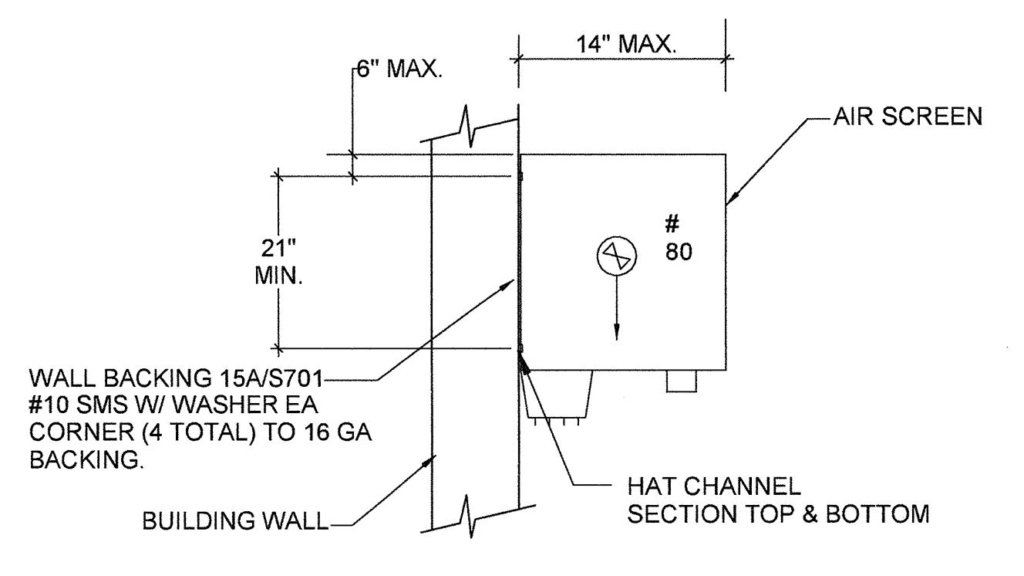
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A500
SHEET TITLE:

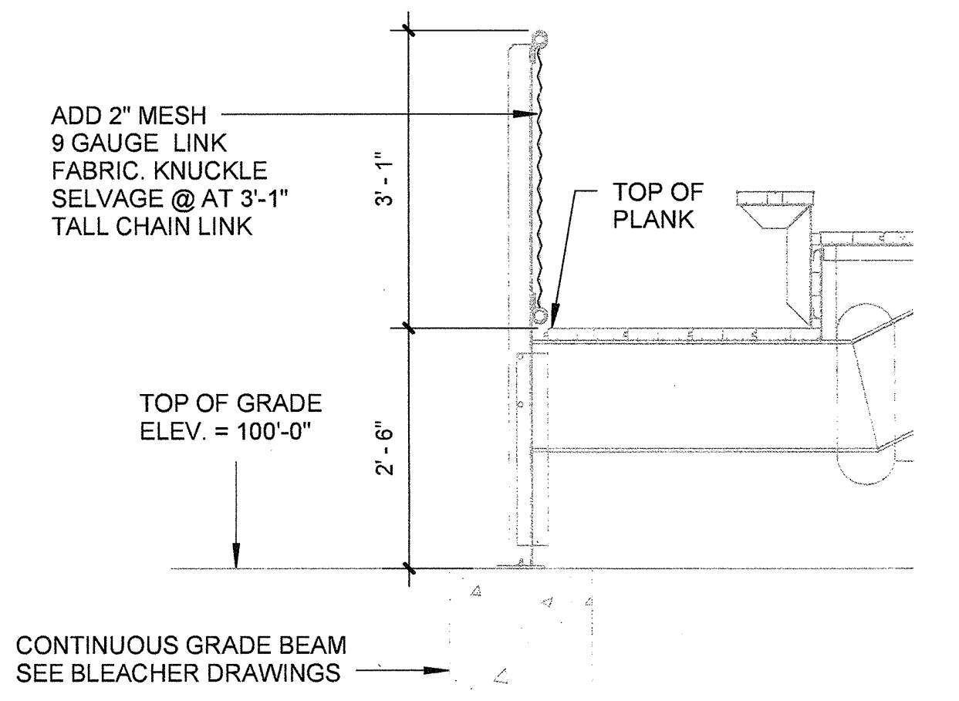
RESTROOMS PLANS

SVA
ARCHITECTS

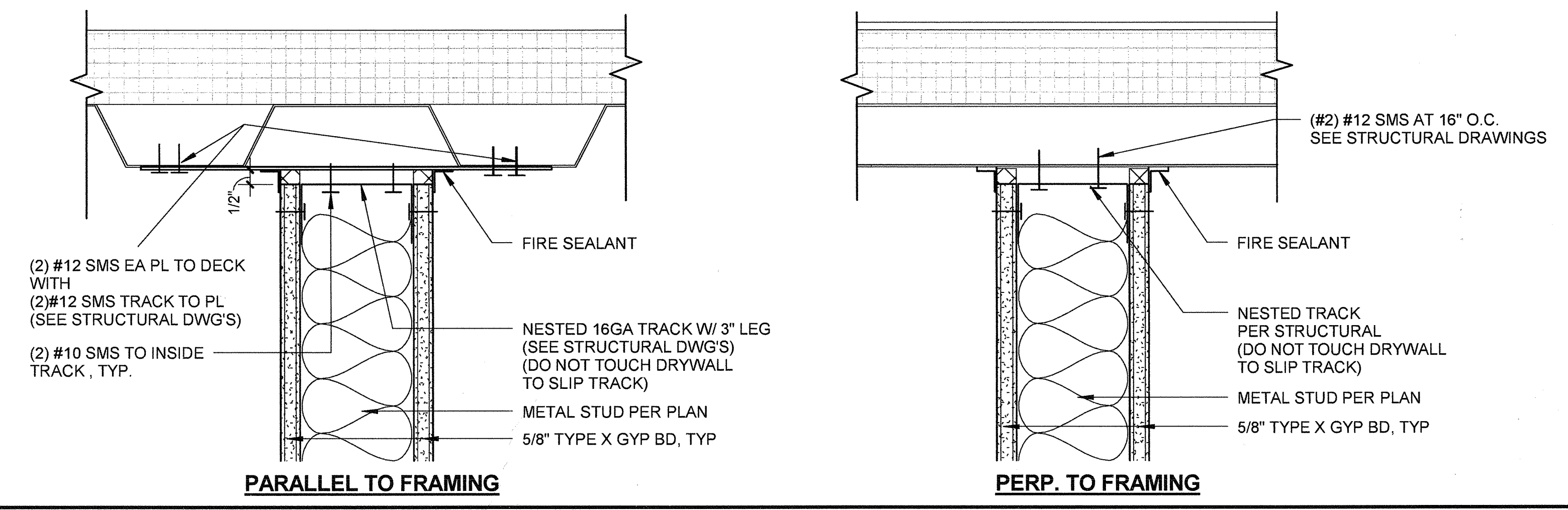
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU



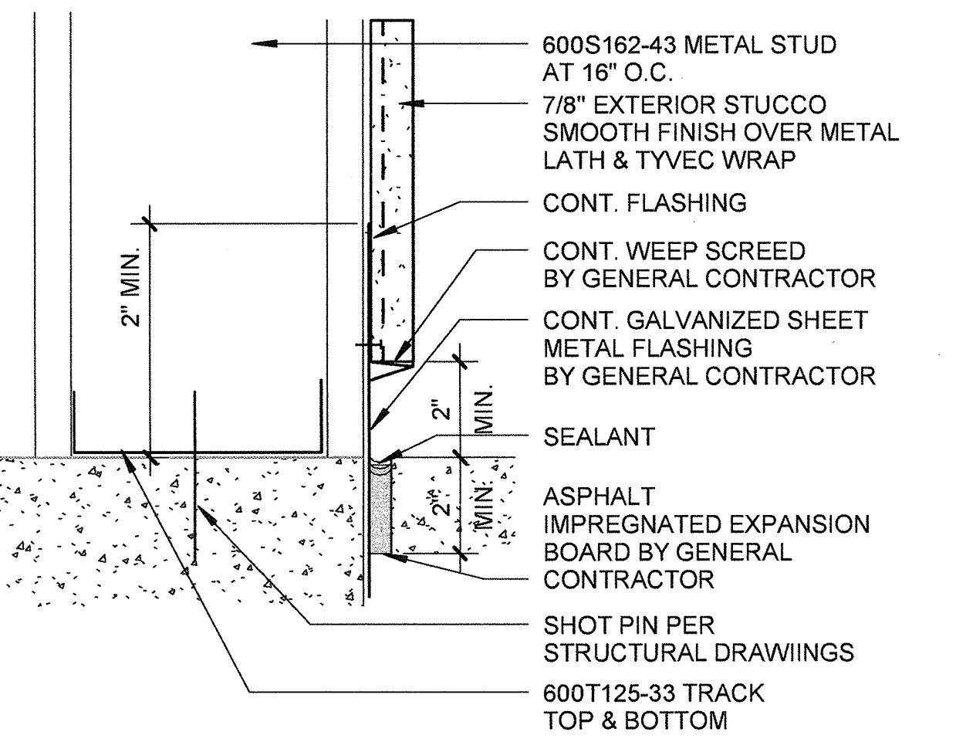
AIR CURTAIN ATTACHMENT SCALE: NTS 25



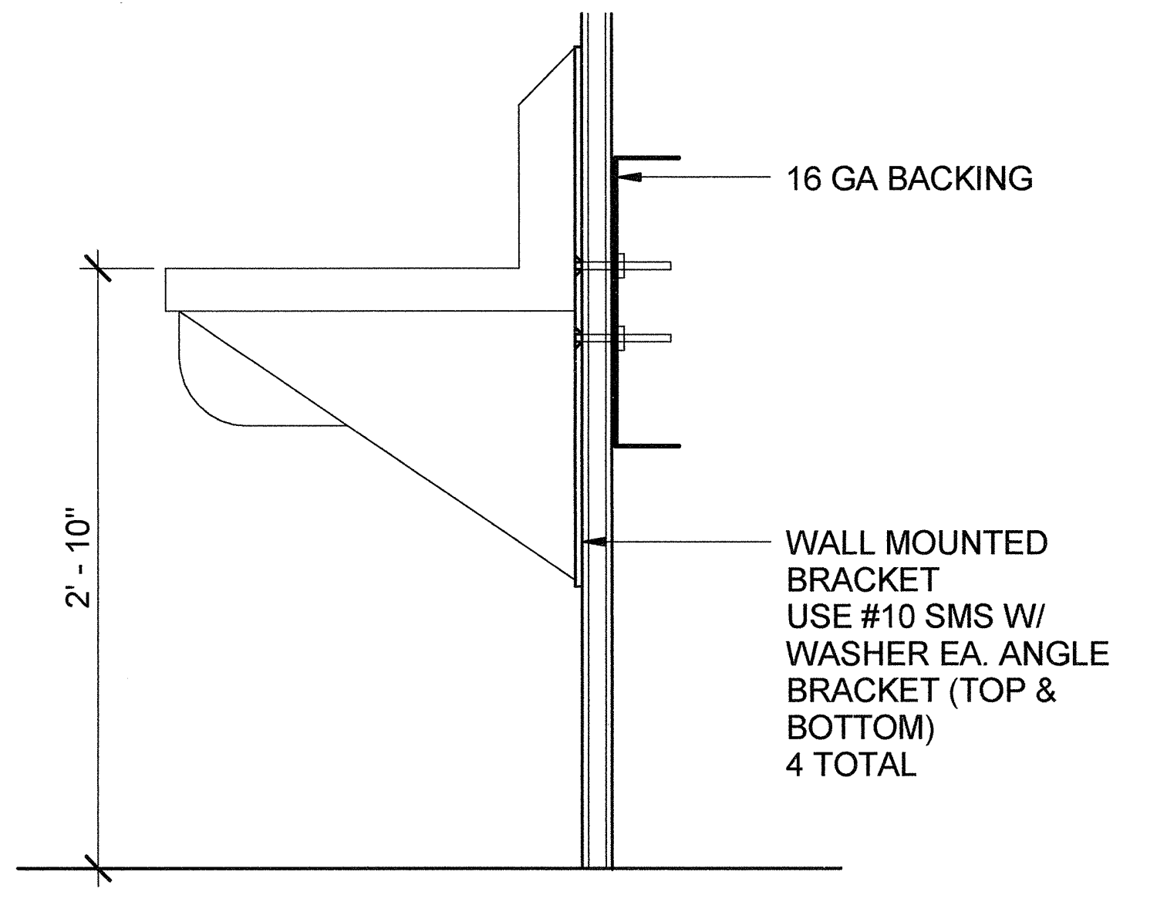
MESH AT BLEACHER FENCE 1/2" = 1'-0" 19



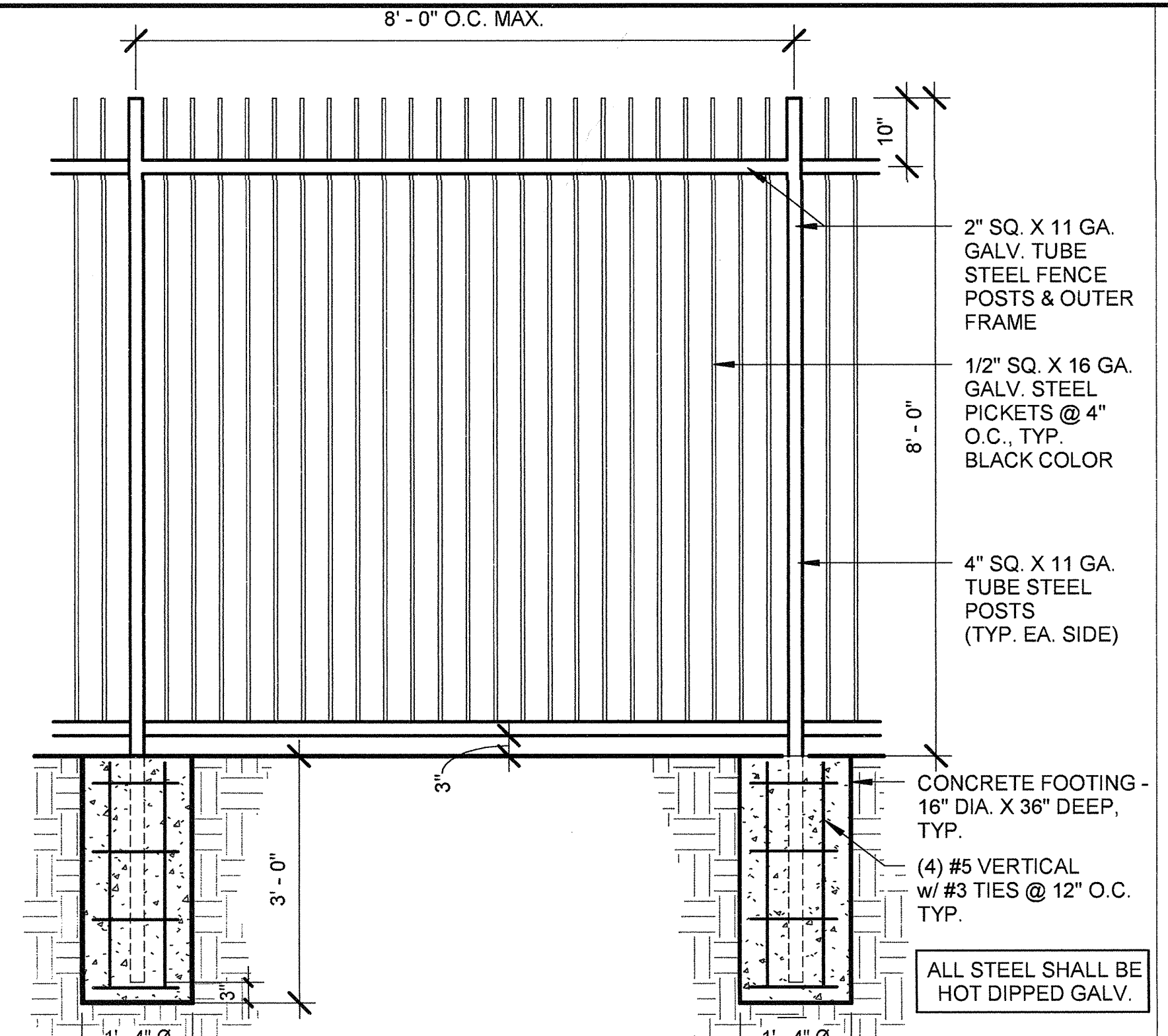
TOP OF WALL @ CONC. METAL DECK 3" = 1'-0" 10



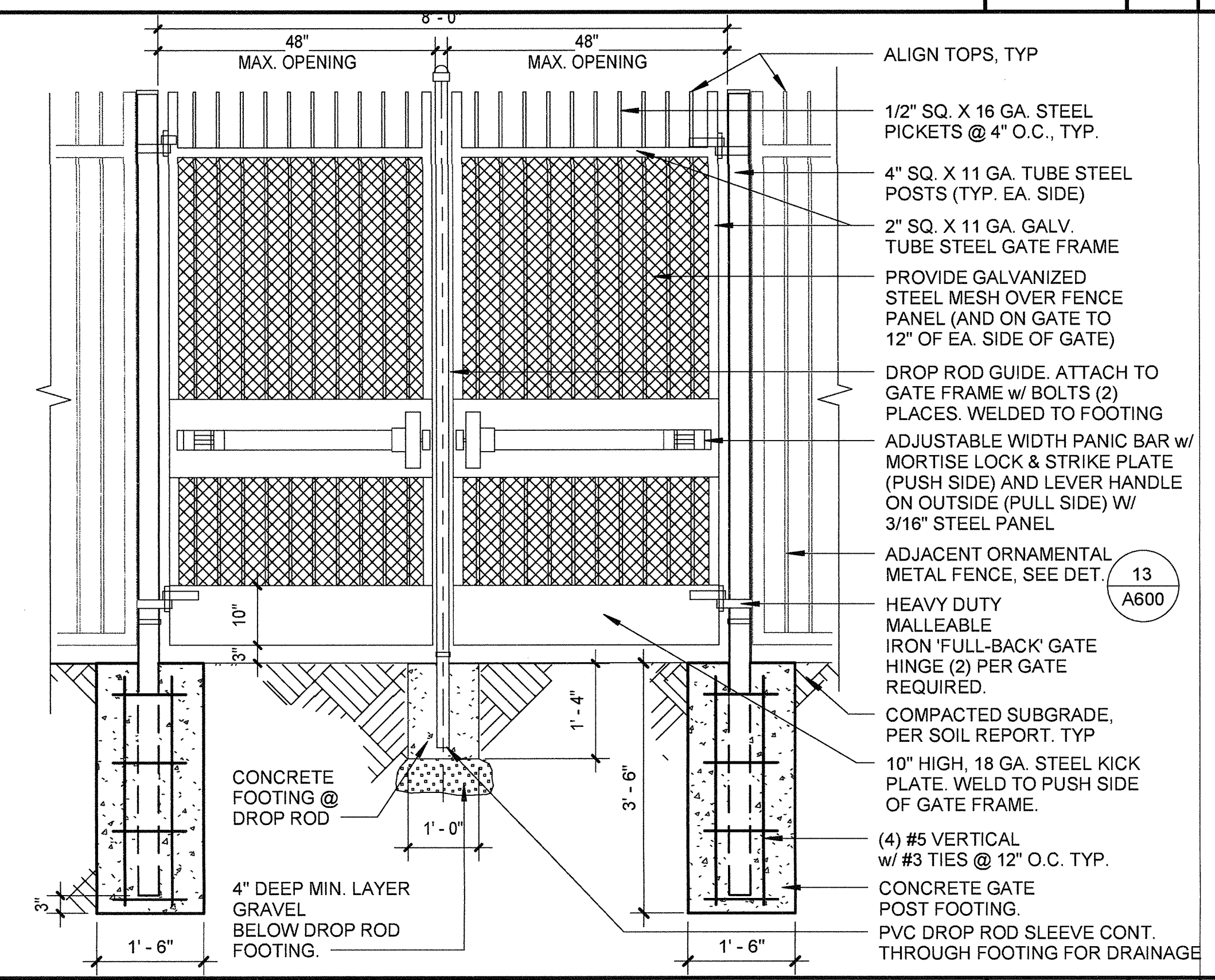
EXTERIOR WALL AT BOTTOM 3" = 1'-0" 4



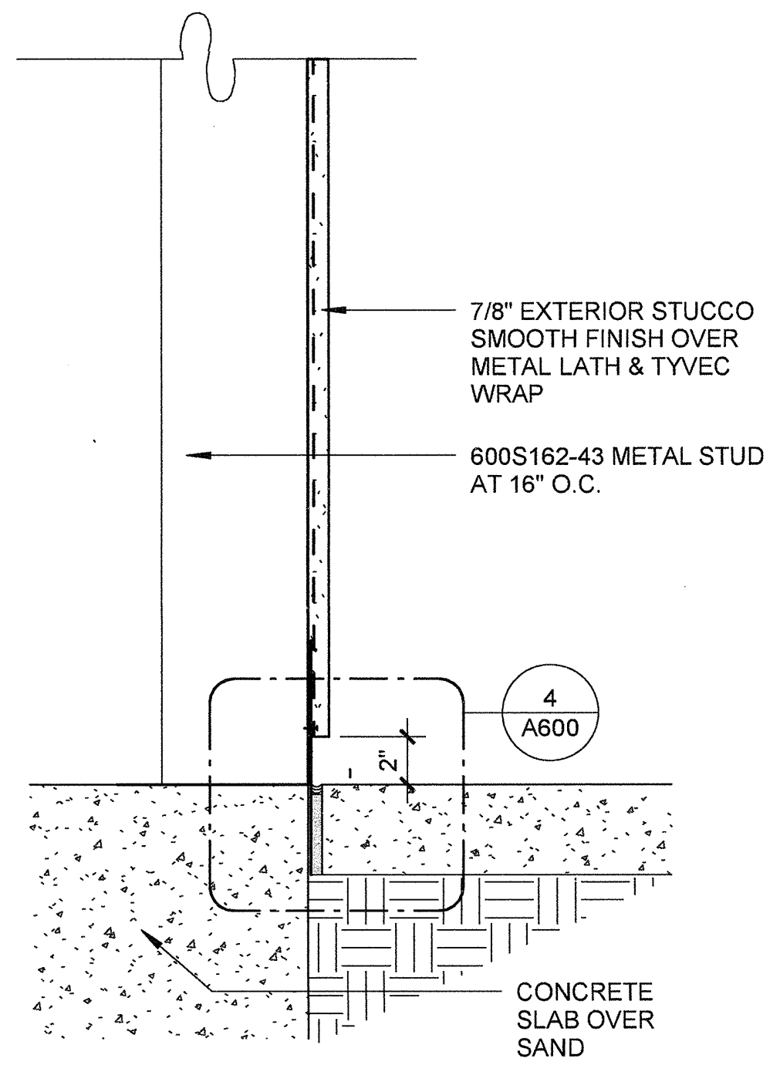
HAND SINK - WALL MOUNT SCALE: NTS 18



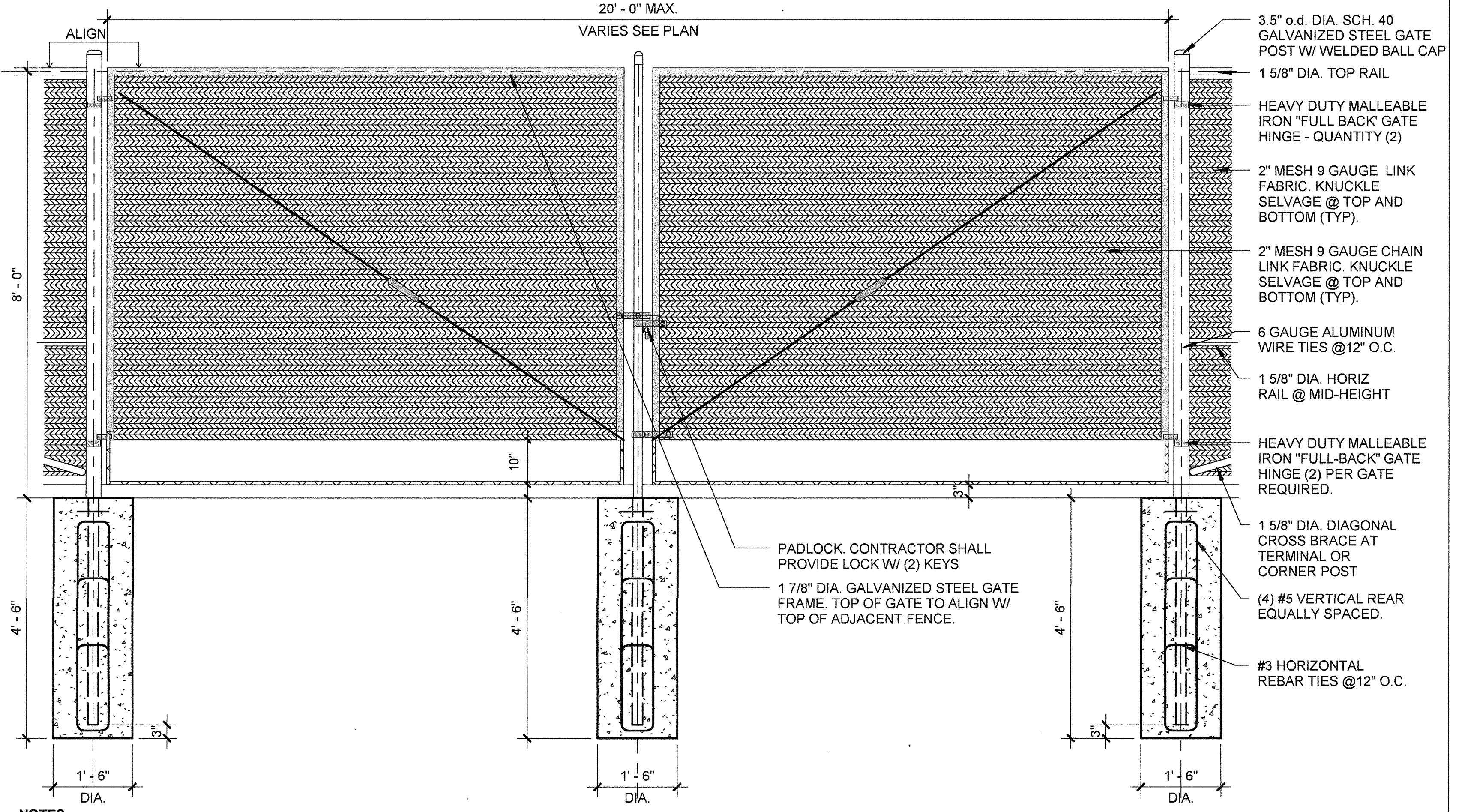
ORNAMENTAL FENCING 1/2" = 1'-0" 13



DBL ORNAMENTAL GATE W/ PANIC (PEDEST.) 1/2" = 1'-0" 8

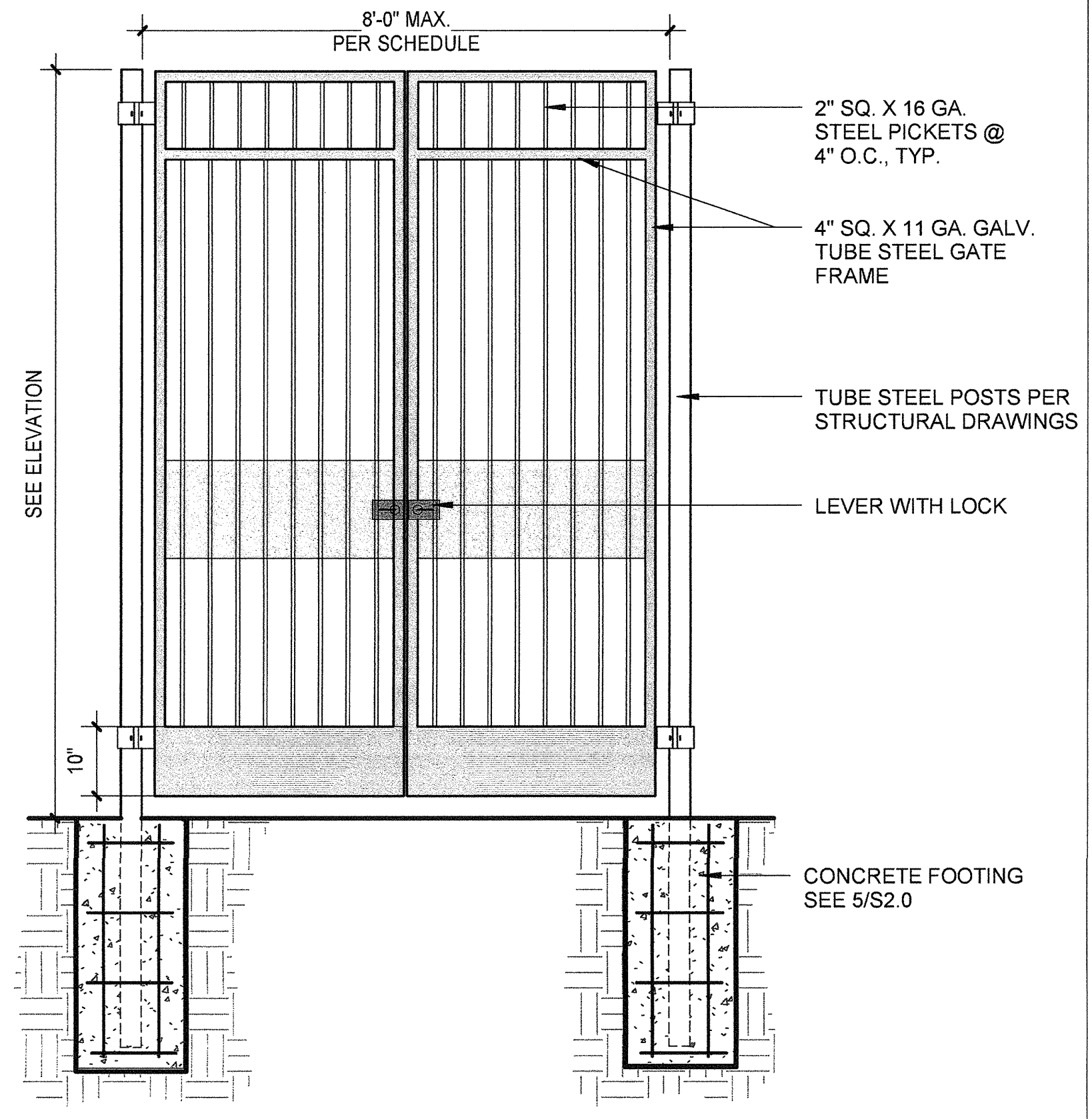


EXTERIOR MONIMENT WALL DETAIL 1 1/2" = 1'-0" 3



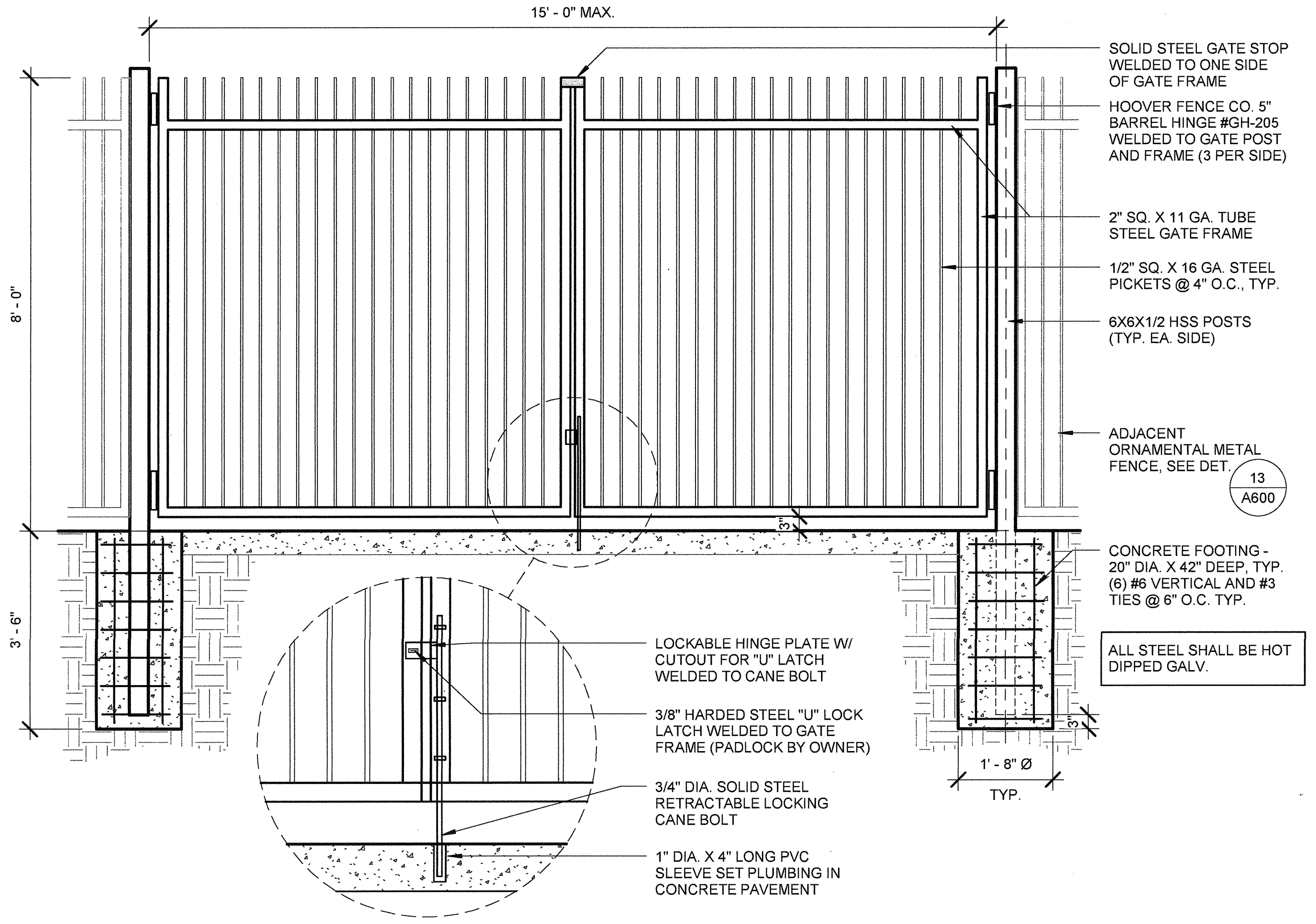
NOTES:
1. OPEN MESH FENCES ARE NOT PART OF DSA REVIEW AND APPROVAL PER 2010 CALIFORNIA BUILDING STANDARD ADMINISTARTIVE CODE SEC. 4-314.
2. ALL CHAIN LINK FABRIC SHALL BE BLACK VINYL COATED POSTS, RAILS AND CONNECTIONG HARDWARE SHALL BE POWDER COATED BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL.

CHAINLINK GATE (VEHICLE) 1/2" = 1'-0" 17

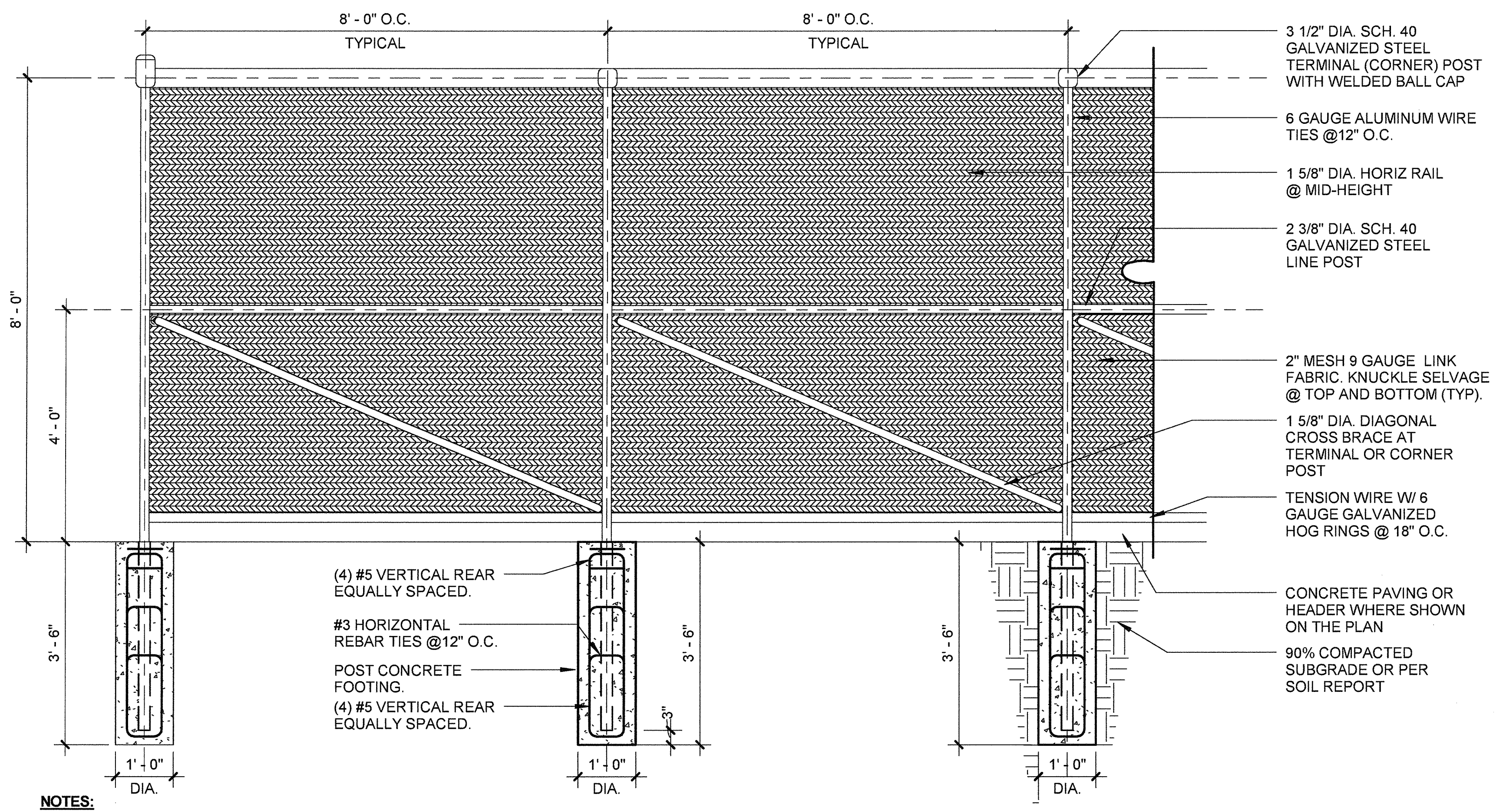


NOTE:
1. ALL STEEL SHALL BE HOT DIPPED GALV.

ORNAMENTAL GATE W/ LEVER (PEDEST.) 1/2" = 1'-0" 12



ORNAMENTAL CHAINLINK GATE (VEHICLE) 1/2" = 1'-0" 2



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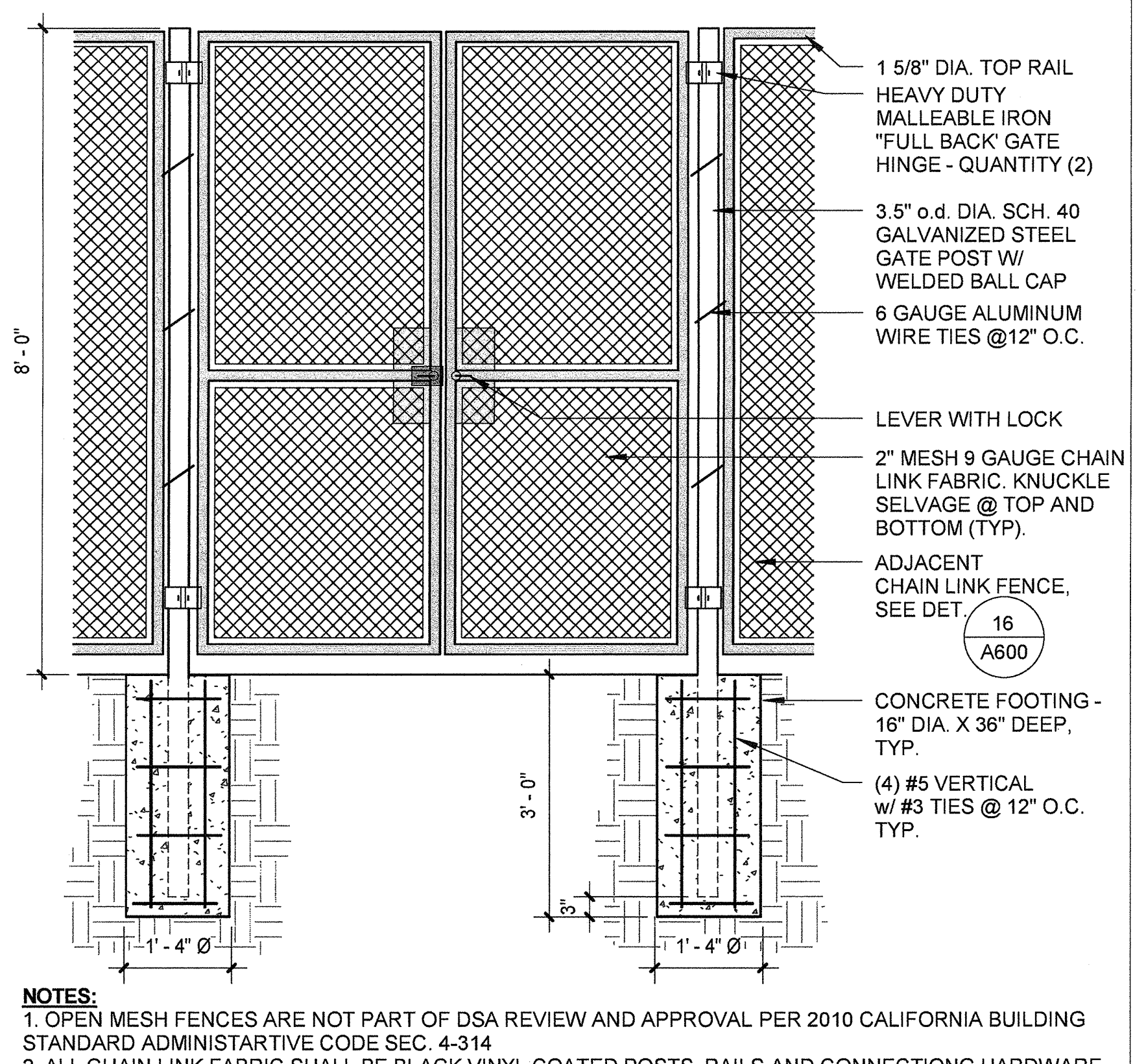
CHAIN LINK MESH FENCING 1/2" = 1'-0" 16



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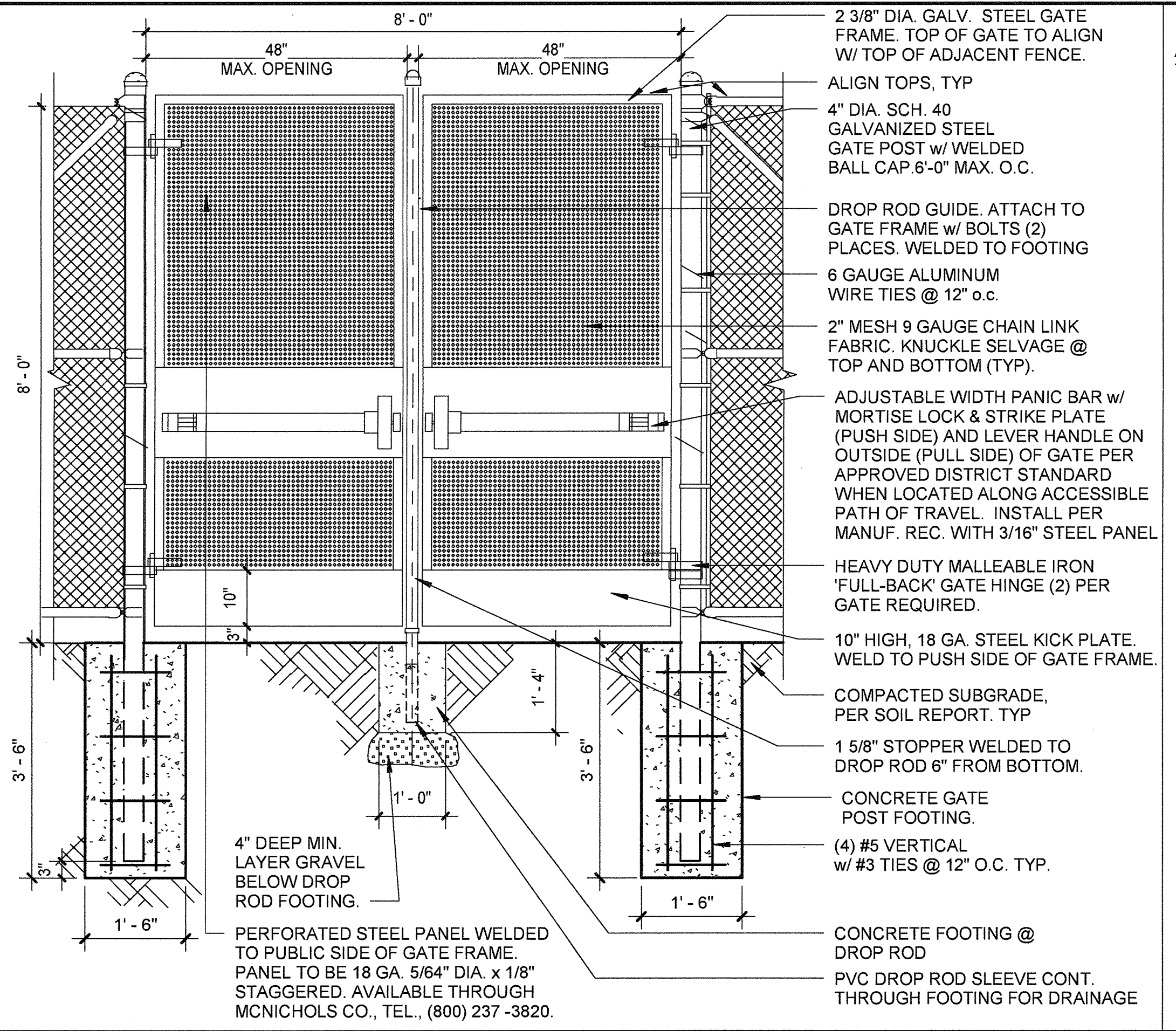
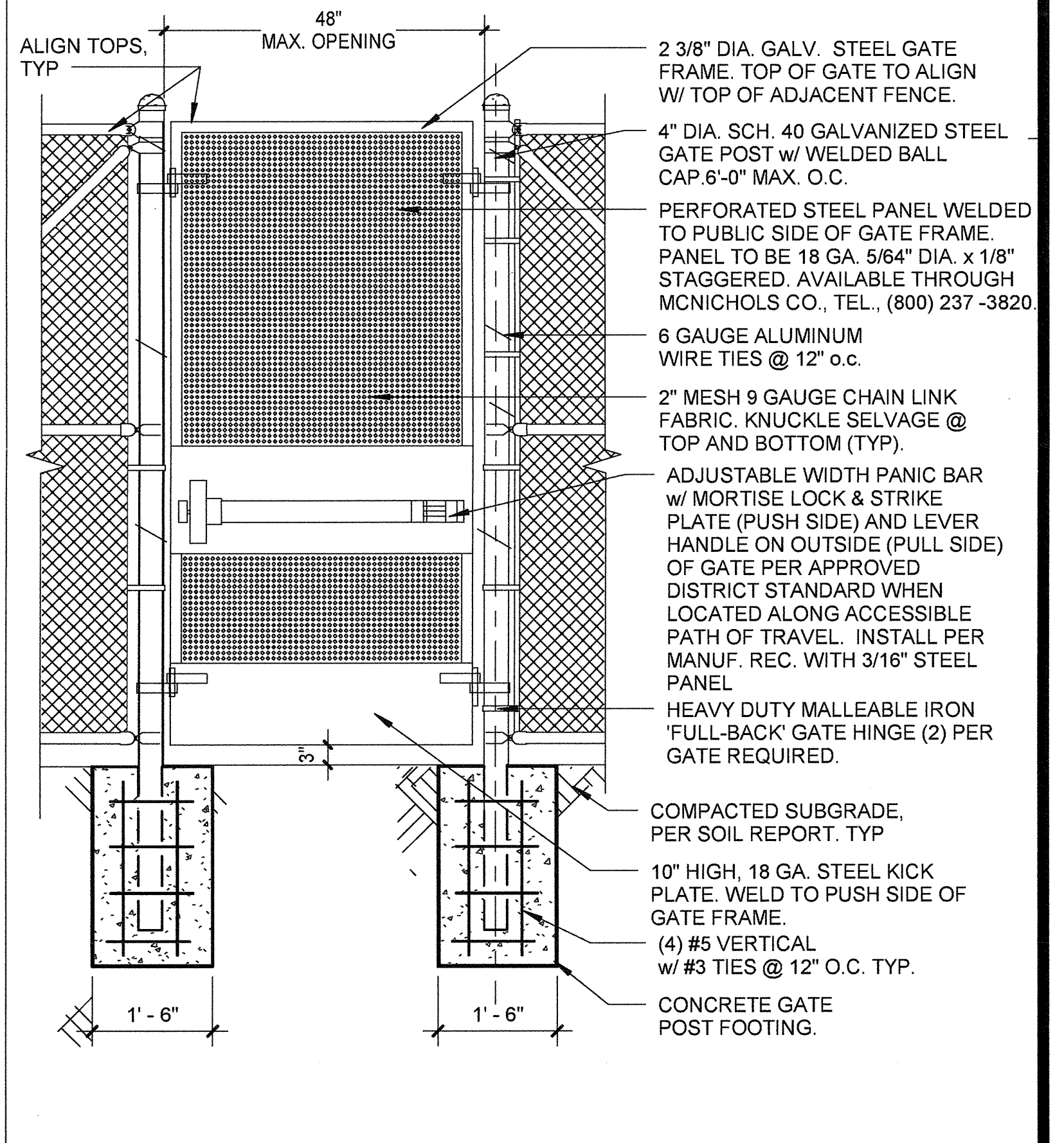
2. ALL CHAIN LINK FABRIC SHALL BE BLACK VINYL COATED POSTS, RAILS AND CONNECTIONG HARDWARE SHALL BE POWDER COATED BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL.

CHAINLINK GATE W/ LEVER (PEDEST.) 1/2" = 1'-0" 11


8' - 0"
48"
MAX. OPENING
48"
MAX. OPENING
2 3/8" DIA. GALV. STEEL GATE
FRAME. TOP OF GATE TO ALIGN
W/ TOP OF ADJACENT FENCE.
ALIGN TOPS, TYP
4" DIA. SCH. 40
GALVANIZED STEEL
GATE POST w/ WELDED
BALL CAP.6'-0" MAX. O.C.
DROP ROD GUIDE. ATTACH TO
GATE FRAME w/ BOLTS (2)
PLACES. WELDED TO FOOTING
6 GAUGE ALUMINUM
WIRE TIES @ 12" o.c.
2" MESH 9 GAUGE CHAIN LINK
FABRIC. KNUCKLE SELVAGE @
TOP AND BOTTOM (TYP).
8' - 0"
ADJUSTABLE WIDTH PANIC BAR w/
MORTISE LOCK & STRIKE PLATE
(PUSH SIDE) AND LEVER HANDLE ON
OUTSIDE (PULL SIDE) OF GATE PER
APPROVED DISTRICT STANDARD
WHEN LOCATED ALONG ACCESSIBLE
PATH OF TRAVEL. INSTALL PER
MANUF. REC. WITH 3/16" STEEL PANEL
HEAVY DUTY MALLEABLE IRON
'FULL-BACK' GATE HINGE (2) PER
GATE REQUIRED.
10"
3"
10" HIGH, 18 GA. STEEL KICK PLATE.
WELD TO PUSH SIDE OF GATE FRAME.
1' - 4"
COMPACTED SUBGRADE,
PER SOIL REPORT. TYP
3' - 6"
3' - 6"
1 5/8" STOPPER WELDED TO
DROP ROD 6" FROM BOTTOM.
1' - 0"
CONCRETE GATE
POST FOOTING.
4" DEEP MIN.
LAYER GRAVEL
BELOW DROP
ROD FOOTING.
(4) #5 VERTICAL
w/ #3 TIES @ 12" O.C. TYP.
3"
1' - 6"
1' - 6"
PERFORATED STEEL PANEL WELDED
TO PUBLIC SIDE OF GATE FRAME.
PANEL TO BE 18 GA. 5/64" DIA. x 1/8"
STAGGERED. AVAILABLE THROUGH
MCNICHOLS CO., TEL., (800) 237 -3820.
CONCRETE FOOTING @
DROP ROD
PVC DROP ROD SLEEVE CONT.
THROUGH FOOTING FOR DRAINAGE

DBL CHAINLINK GATE W/ PANIC (PEDEST.) 1/2" = 1'-0" 6


ALIGN TOPS,
TYP
48"
MAX. OPENING
2 3/8" DIA. GALV. STEEL GATE
FRAME. TOP OF GATE TO ALIGN
W/ TOP OF ADJACENT FENCE.
4" DIA. SCH. 40 GALVANIZED STEEL
GATE POST w/ WELDED BALL
CAP.6'-0" MAX. O.C.
PERFORATED STEEL PANEL WELDED
TO PUBLIC SIDE OF GATE FRAME.
PANEL TO BE 18 GA. 5/64" DIA. x 1/8"
STAGGERED. AVAILABLE THROUGH
MCNICHOLS CO., TEL., (800) 237 -3820.
6 GAUGE ALUMINUM
WIRE TIES @ 12" o.c.
2" MESH 9 GAUGE CHAIN LINK
FABRIC. KNUCKLE SELVAGE @
TOP AND BOTTOM (TYP).
ADJUSTABLE WIDTH PANIC BAR
w/ MORTISE LOCK & STRIKE
PLATE (PUSH SIDE) AND LEVER
HANDLE ON OUTSIDE (PULL SIDE)
OF GATE PER APPROVED
DISTRICT STANDARD WHEN
LOCATED ALONG ACCESSIBLE
PATH OF TRAVEL. INSTALL PER
MANUF. REC. WITH 3/16" STEEL
PANEL
HEAVY DUTY MALLEABLE IRON
'FULL-BACK' GATE HINGE (2) PER
GATE REQUIRED.
3"
COMPACTED SUBGRADE,
PER SOIL REPORT. TYP
10" HIGH, 18 GA. STEEL KICK
PLATE. WELD TO PUSH SIDE OF
GATE FRAME.
(4) #5 VERTICAL
w/ #3 TIES @ 12" O.C. TYP.
1' - 6"
1' - 6"
CONCRETE GATE
POST FOOTING.

SGL CHAINLINK GATE (PEDESTRIAN) 1/2" = 1'-0" 1

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

LICENSED ARCHITECT
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A# 03-117117
AC N.N. FLS ______ SS ______
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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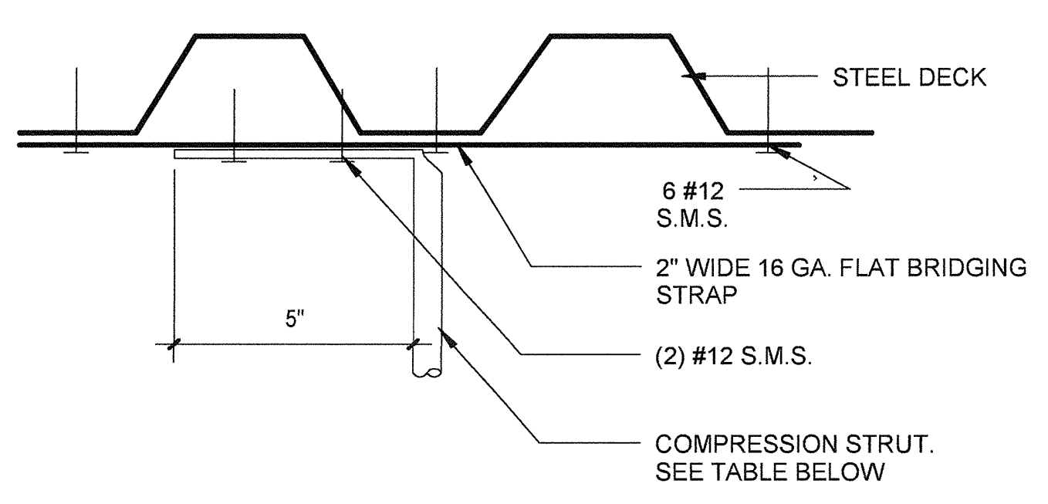
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A600
SHEET TITLE:

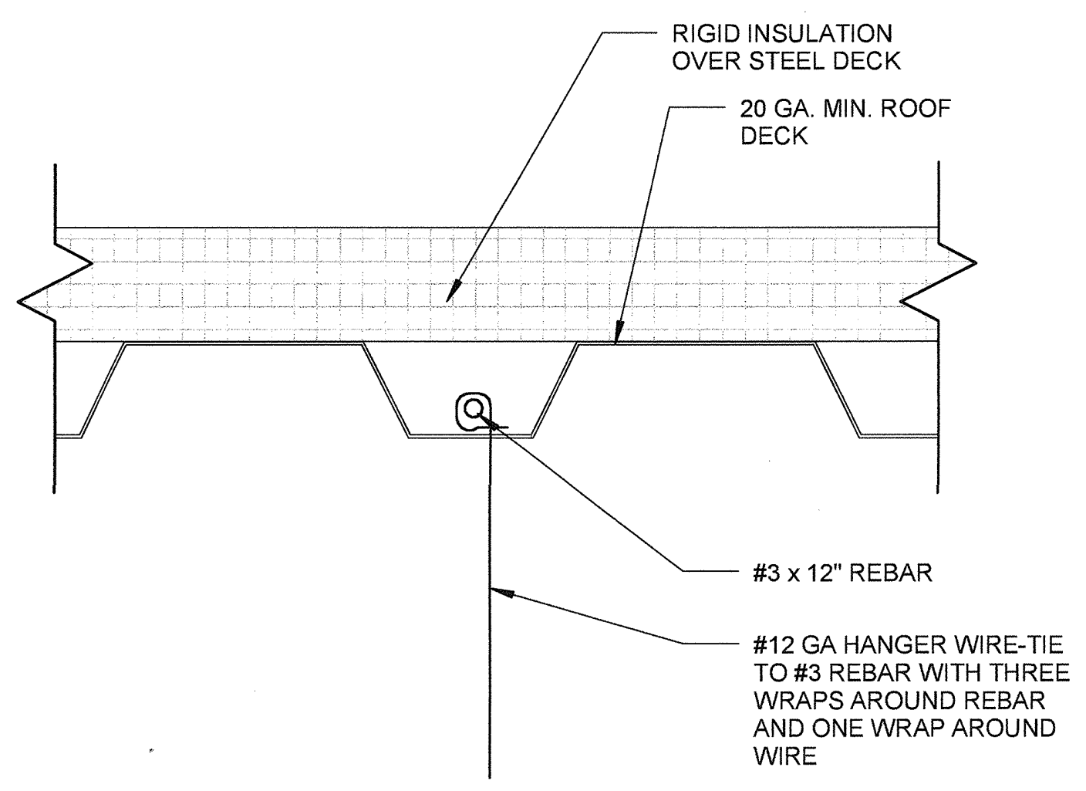
DETAILS

SVA ARCHITECTS

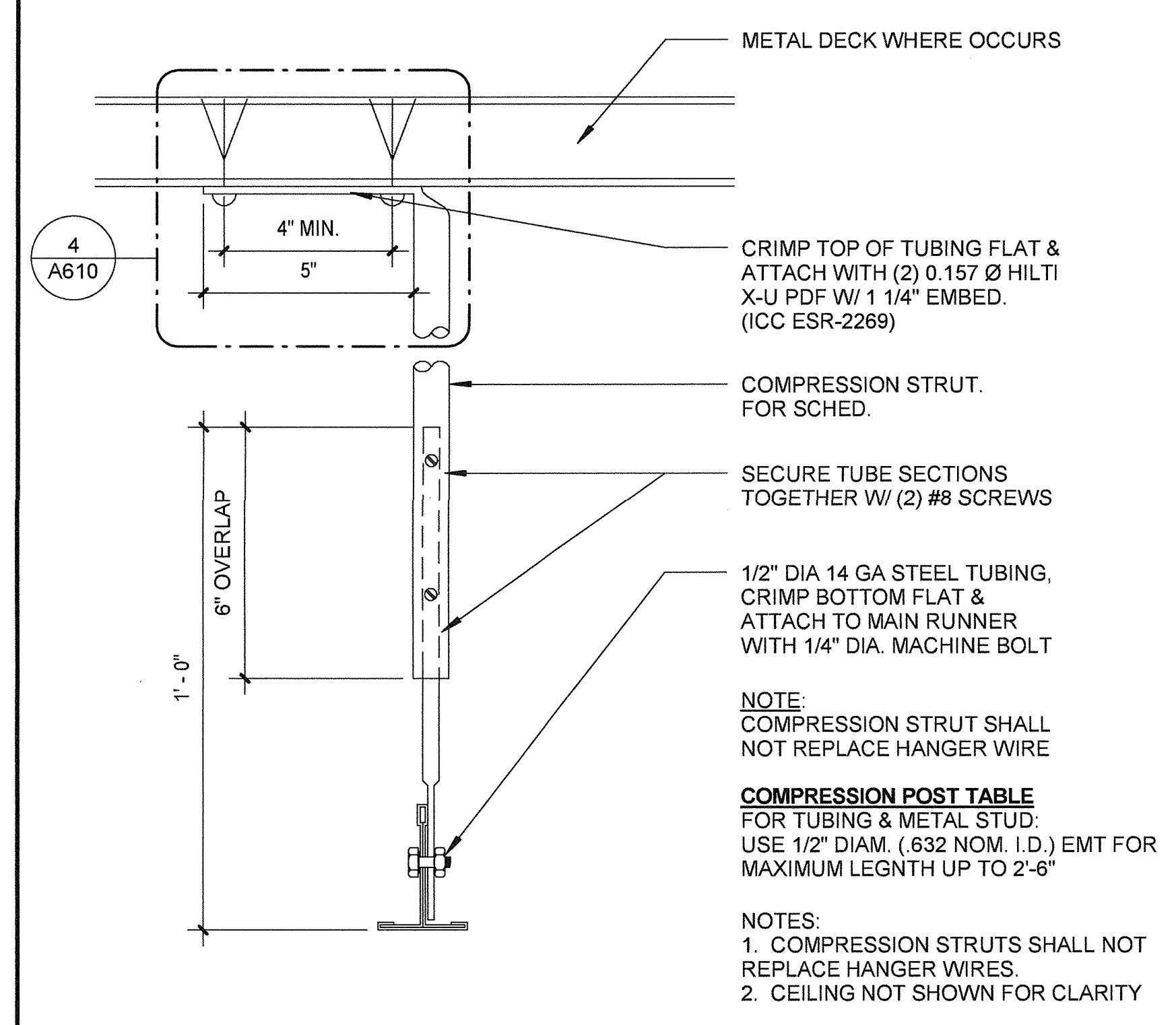
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


STEEL DECK
6 #12
S.M.S.
2" WIDE 16 GA. FLAT BRIDGING STRAP
5"
(2) #12 S.M.S.
COMPRESSION STRUT. SEE TABLE BELOW

COMPRESSION STRUT @ ROOF DECK 3" = 1'-0" **4**


RIGID INSULATION OVER STEEL DECK
20 GA. MIN. ROOF DECK
#3 x 12" REBAR
#12 GA HANGER WIRE-TIE TO #3 REBAR WITH THREE WRAPS AROUND REBAR AND ONE WRAP AROUND WIRE

HANGER WIRE @ STEEL DECK 3" = 1'-0" **14**

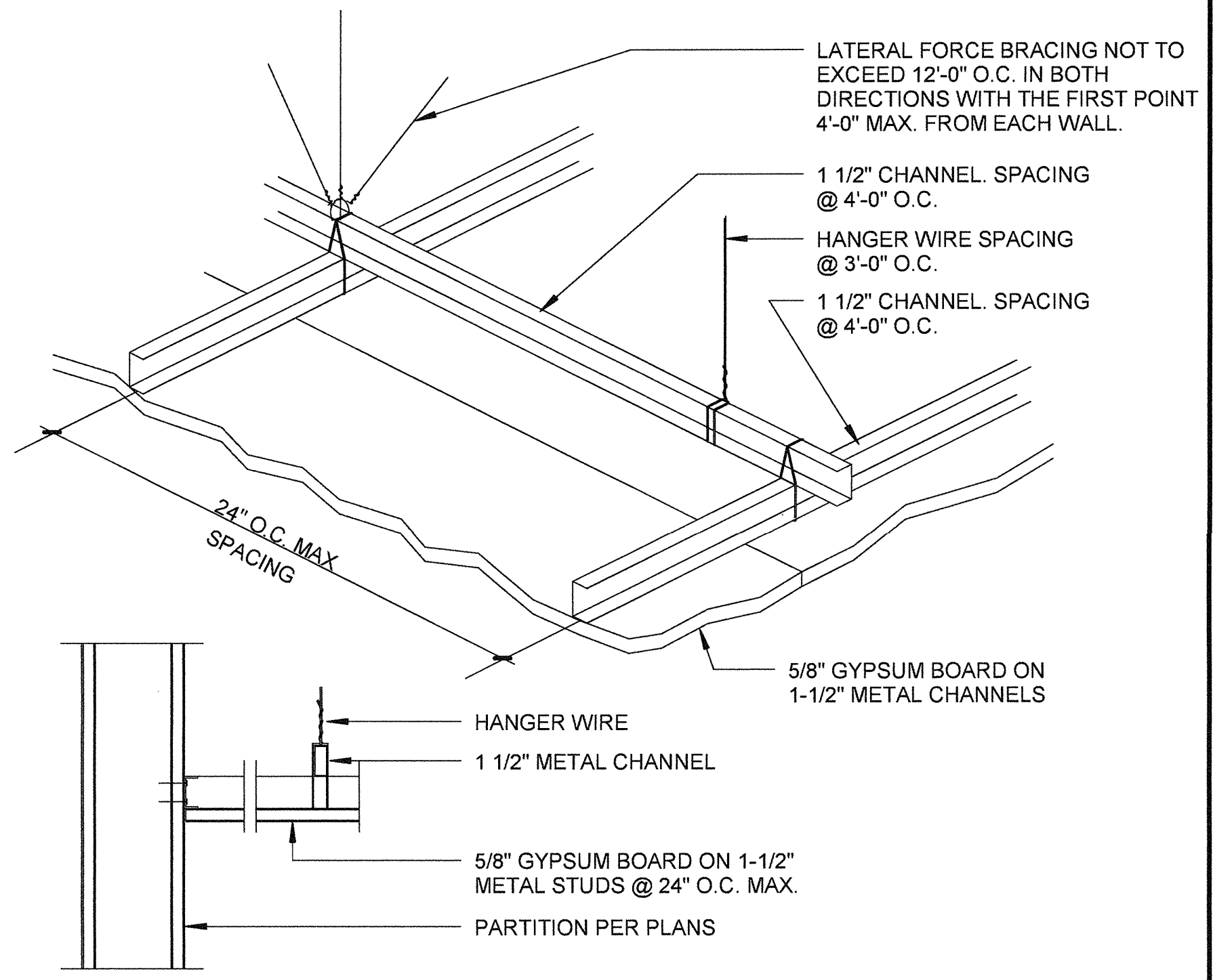

METAL DECK WHERE OCCURS
4
A610
4" MIN.
5"
CRIMP TOP OF TUBING FLAT & ATTACH WITH (2) 0.157 Ø HILTI X-U PDF W/ 1 1/4" EMBED. (ICC ESR-2269)
COMPRESSION STRUT. FOR SCHED.
SECURE TUBE SECTIONS TOGETHER W/ (2) #8 SCREWS
6" OVERLAP
1'-0"
1/2" DIA 14 GA STEEL TUBING, CRIMP BOTTOM FLAT & ATTACH TO MAIN RUNNER WITH 1/4" DIA. MACHINE BOLT

NOTE:
COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE

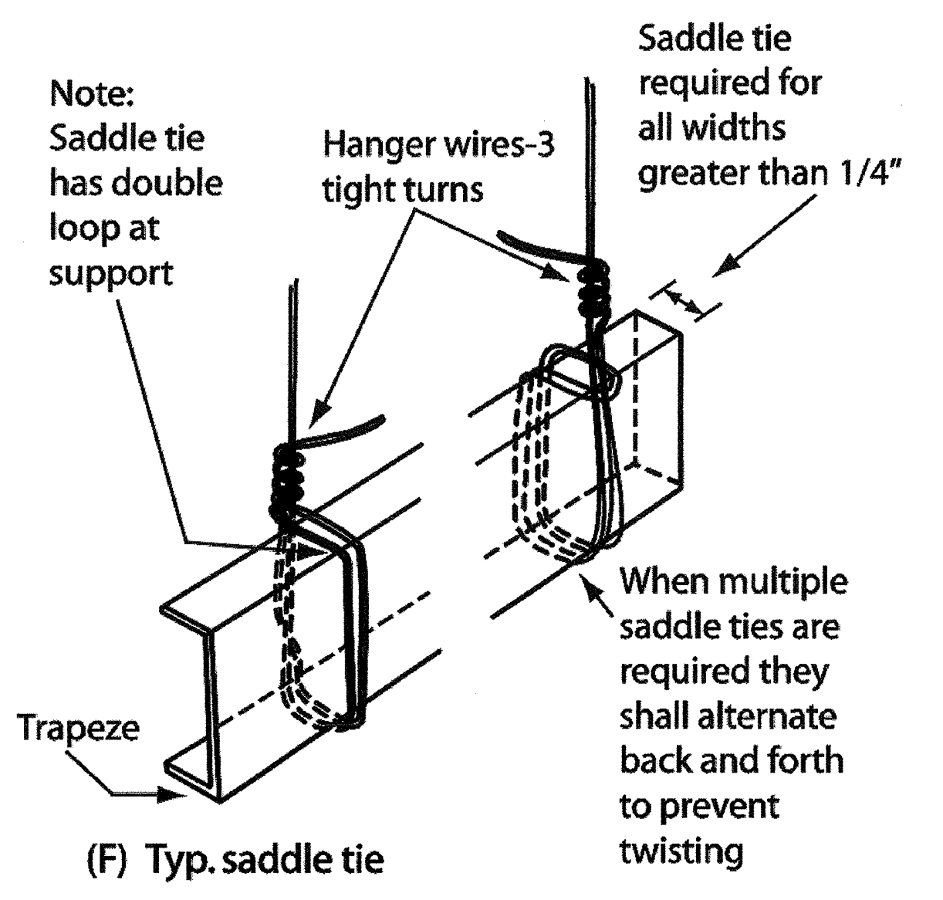
COMPRESSION POST TABLE
FOR TUBING & METAL STUD:
USE 1/2" DIAM. (.632 NOM. I.D.) EMT FOR MAXIMUM LEGNTH UP TO 2'-6"

NOTES:
1. COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRES.
2. CEILING NOT SHOWN FOR CLARITY

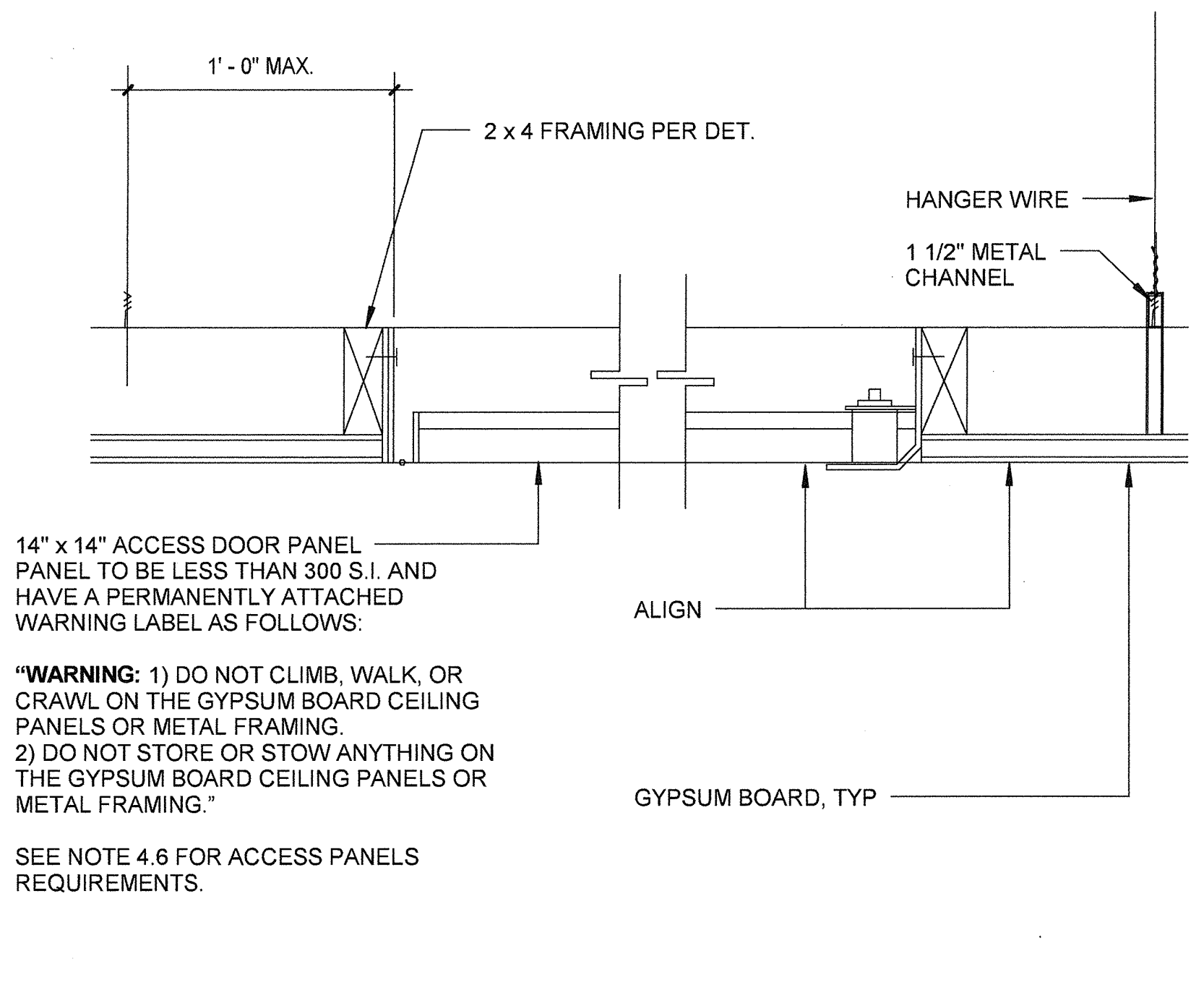
COMPRESSION STRUT @ GYP. BD. 3" = 1'-0" **2**


LATERAL FORCE BRACING NOT TO EXCEED 12'-0" O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT 4'-0" MAX. FROM EACH WALL.
1 1/2" CHANNEL. SPACING @ 4'-0" O.C.
HANGER WIRE SPACING @ 3'-0" O.C.
1 1/2" CHANNEL. SPACING @ 4'-0" O.C.
24" O.C. MAX SPACING
5/8" GYPSUM BOARD ON 1-1/2" METAL CHANNELS
HANGER WIRE
1 1/2" METAL CHANNEL
5/8" GYPSUM BOARD ON 1-1/2" METAL STUDS @ 24" O.C. MAX.
PARTITION PER PLANS

ALTERNATE GYP. BD. CEILING DETAIL 1 1/2" = 1'-0" **6**


Note:
Saddle tie has double loop at support
Hanger wires-3 tight turns
Saddle tie required for all widths greater than 1/4"
When multiple saddle ties are required they shall alternate back and forth to prevent twisting
Trapeze
(F) Typ. saddle tie

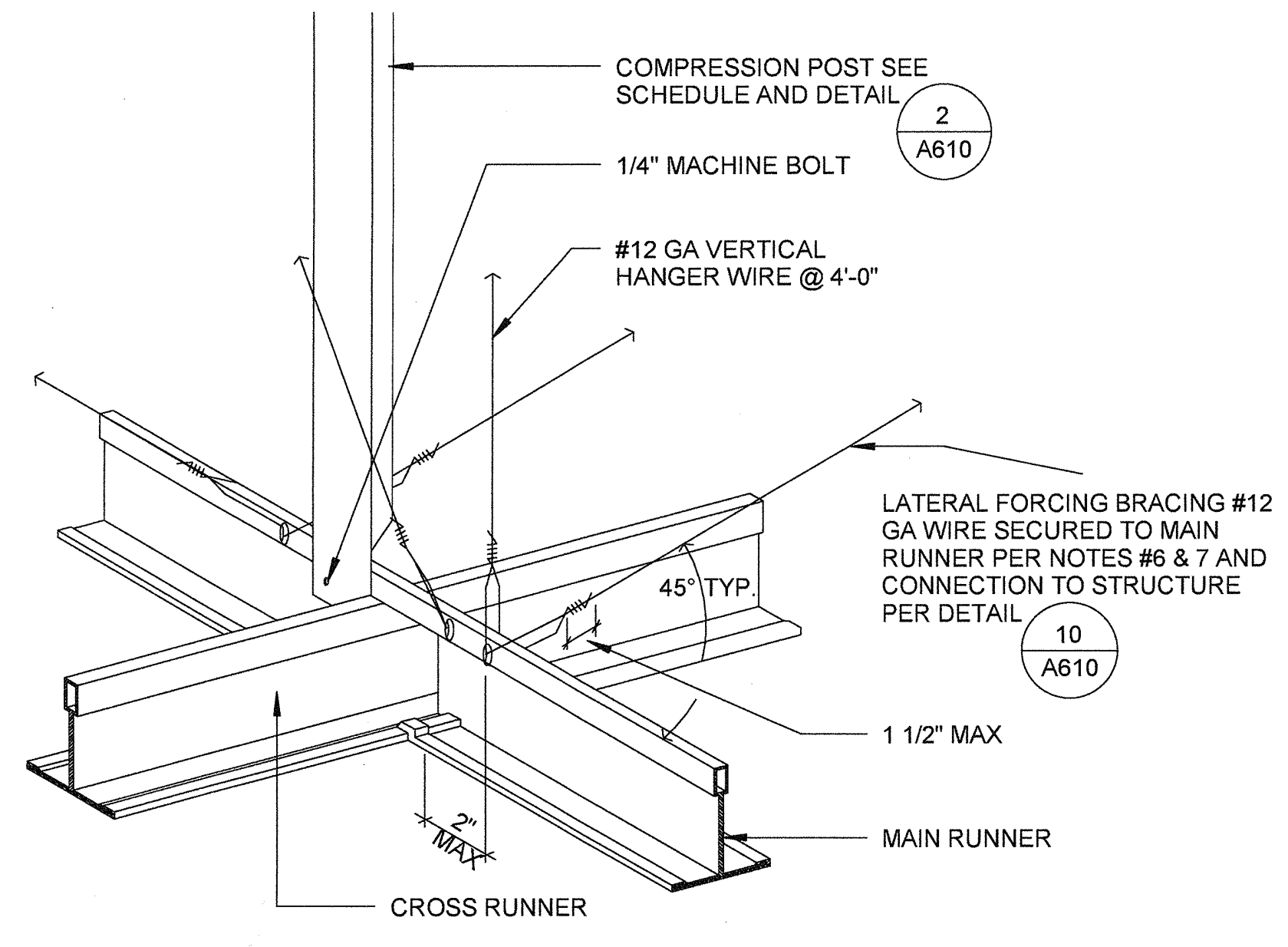
SADDLE TIE 1/2" = 1'-0" **12**


1' - 0" MAX.
2 x 4 FRAMING PER DET.
HANGER WIRE
1 1/2" METAL CHANNEL
14" x 14" ACCESS DOOR PANEL
PANEL TO BE LESS THAN 300 S.I. AND HAVE A PERMANENTLY ATTACHED WARNING LABEL AS FOLLOWS:
ALIGN
GYPSUM BOARD, TYP

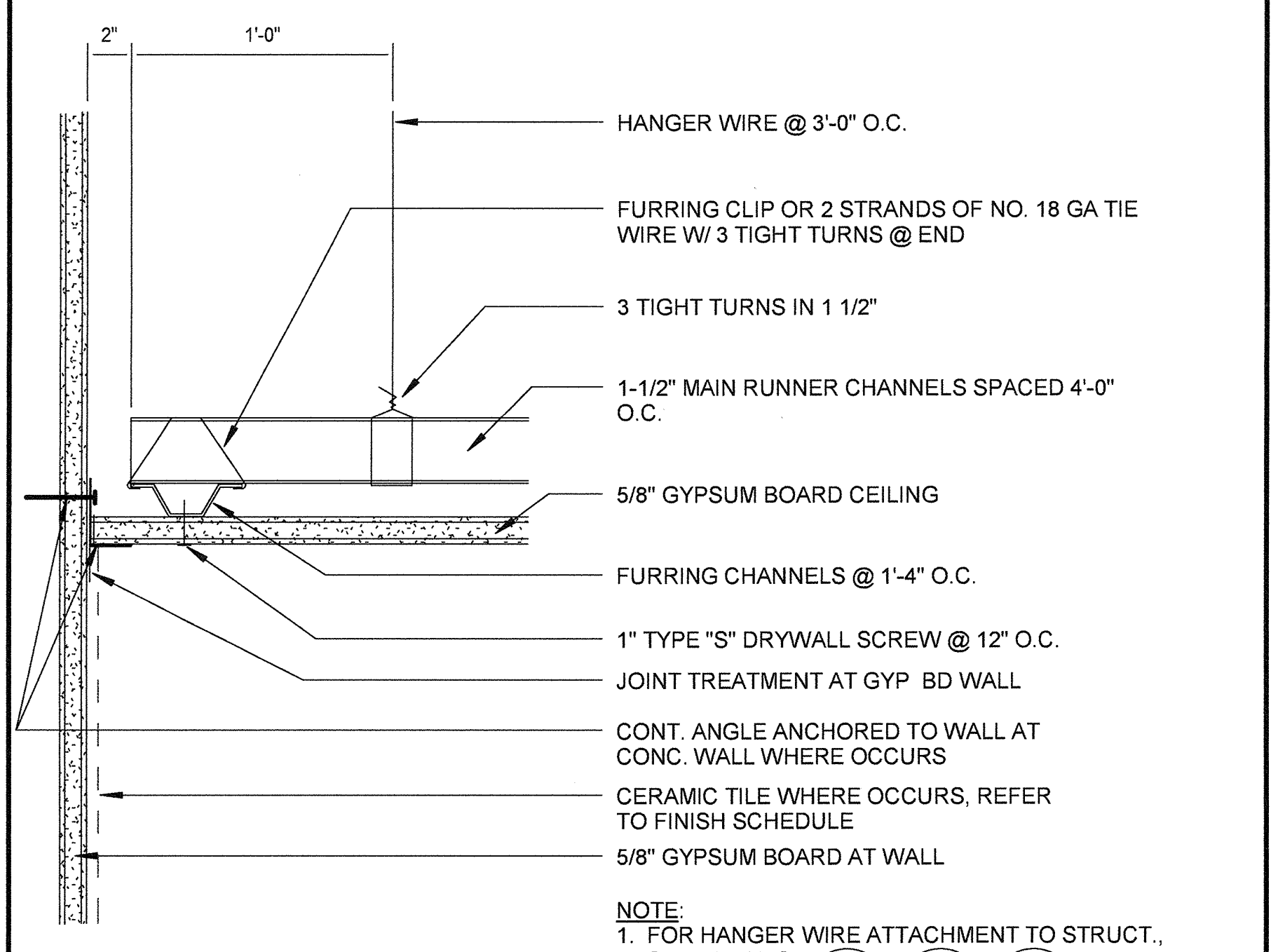
"WARNING: 1) DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING.
2) DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING."

SEE NOTE 4.6 FOR ACCESS PANELS REQUIREMENTS.

GYP. BD. CLG. @ ACCESS PANEL 1 1/2" = 1'-0" **13**


COMPRESSION POST SEE SCHEDULE AND DETAIL
2
A610
1/4" MACHINE BOLT
#12 GA VERTICAL HANGER WIRE @ 4'-0"
LATERAL FORCING BRACING #12 GA WIRE SECURED TO MAIN RUNNER PER NOTES #6 & 7 AND CONNECTION TO STRUCTURE PER DETAIL
10
A610
45° TYP.
1 1/2" MAX
2" MAX
MAIN RUNNER
CROSS RUNNER

CEILING SPAY WIRE BRACING 1 1/2" = 1'-0" **8**


2"
1'-0"
HANGER WIRE @ 3'-0" O.C.
FURRING CLIP OR 2 STRANDS OF NO. 18 GA TIE WIRE W/ 3 TIGHT TURNS @ END
3 TIGHT TURNS IN 1 1/2"
1-1/2" MAIN RUNNER CHANNELS SPACED 4'-0" O.C.
5/8" GYPSUM BOARD CEILING
FURRING CHANNELS @ 1'-4" O.C.
1" TYPE "S" DRYWALL SCREW @ 12" O.C.
JOINT TREATMENT AT GYP BD WALL
CONT. ANGLE ANCHORED TO WALL AT CONC. WALL WHERE OCCURS
CERAMIC TILE WHERE OCCURS, REFER TO FINISH SCHEDULE
5/8" GYPSUM BOARD AT WALL

NOTE:
1. FOR HANGER WIRE ATTACHMENT TO STRUCT., SEE DETAILS 14/A610, 9/A610, 10/A610
2. FOR CONPRESSION STRUT, SEE DETAIL 4/A610, 2/A610

SUSP. GYP. BD. CLG. @ STUD WALL 1 1/2" = 1'-0" **5**

SUSPENDED GYPSUM BOARD CEILING SYSTEM PER CBC CHAPTER 25, CBC TABLE 2506.2 AND DIVISION OF THE STATE ARCHITECT IR 25-3.13

1. MATERIALS: MATERIALS ARE TO COMPLY WITH CBC SECTION 2508 AND APPLICABLE ASTM STANDARDS. GYPSUM WALLBOARD IS EITHER 1/2 INCH OR 5/8 INCH IN THICKNESS. COLD-FORMED STEEL SECTIONS SPECIFIED IN THIS IR ARE IDENTIFIED BY A PRODUCT DESIGNATOR WHICH HAS BEEN STANDARDIZED BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI) IN COLLABORATION WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

2. DESIGN: THE PRESCRIPTIVE REQUIREMENTS OF THIS IR SHALL BE TAKEN AS THE MINIMUM REQUIREMENTS AND APPLY TO A CEILING THAT IS NOT ACCESSIBLE, HAS A SINGLE LAYER OF GYPSUM BOARD NOT EXCEEDING 5/8" THICK, AND HAS A TOTAL CEILING WEIGHT NOT TO EXCEED FOUR (4) POUNDS PER SQUARE FOOT (PSF). A CEILING THAT IS REQUIRED BY CCR TITLE 24 TO BE ACCESSIBLE, OR OTHERWISE DOES NOT MEET THESE LIMITATIONS, SHALL BE DESIGNED TO MEET THE APPLICABLE REQUIREMENTS OF CBC SECTIONS 1607A AND 2508.1, AND ASCE 7-10, SECTION 13.3.1.

DETAILS OF CONSTRUCTION:
3.1 GENERAL: GYPSUM BOARD CEILINGS SHALL NOT SUPPORT BUILDING COMPONENTS OTHER THAN AIR CONDITIONING/HEATING GRILLS OR LIGHT FIXTURES. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHALL BE APPLIED TO CROSS-FURRING.
3.2 VERTICAL SUPPORT SYSTEM: THERE ARE MANY POSSIBLE VARIATIONS OF MAIN RUNNER SIZES, SPACINGS, AND SPANS LISTED IN ASTM C754-04, TABLE 7. ALL OF THE COMBINATIONS ARE ACCEPTABLE, PROVIDED THE MAIN RUNNER SPACING DOES NOT EXCEED 4'-0" AND THE CEILING AREA SUPPORTED BY A HANGER WIRE DOES NOT EXCEED 16 SQUARE FEET.
3.2.1 MAIN RUNNER SPACING AND SPAN: THE MAIN RUNNER MOST FREQUENTLY USED IS A 1-1/2 INCH COLD ROLLED CHANNEL DESIGNATED 150U050-54 (1-1/2 INCH COLD ROLLED CHANNELS WEIGHING 0.414 LBS/FT) SPACED NO MORE THAN 4'-0" O.C. WITH A HANGER WIRE SPACING NOT TO EXCEED 4'-0" O.C. AND NO MORE THAN 6" FROM EACH END OF THE MAIN RUNNER.
3.2.2 VERTICAL HANGER WIRES: CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #9 GAGE (0.148" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
3.2.3 CROSS-FURRING: 7/8 INCH GALVANIZED STEEL HAT SECTIONS, DESIGNATED 087F125-18, AT 24 INCHES O.C. MAXIMUM.

3.3 CONNECTING HANGER WIRES, STEEL FRAMING AND FURRING:
3.3.1 HANGER WIRES SHALL BE SADDLE-TIED TO THE MAIN RUNNERS PER IR 25-2.13 FIGURE 3A(F).
3.3.2 CROSS FURRING SHALL BE SADDLE-TIED TO THE MAIN RUNNERS WITH AT LEAST ONE STRAND OF #16 GAGE, OR TWO STRANDS OF #18 GAGE TIE WIRE.
3.3.3 MAIN RUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF 12 INCHES LONG.
3.3.4 CROSS FURRING SHALL BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF EIGHT (8) INCHES LONG.

3.4 INSTALLATION AND ANCHORAGE OF HANGER AND BRACING WIRES: FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS WITHIN A DISTANCE OF THREE INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS WITHIN A DISTANCE OF ONE AND ONE-HALF (1-1/2) INCHES. HANGER AND BRACING WIRE ANCHORS SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
3.4.1 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.4.2 WHEN DRILLED-IN CONCRETE ANCHORS OR POWER ACTUATED FASTENERS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS IN TENSION. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY POWER ACTUATED FASTENER OR DRILLED-IN ANCHOR FAILS, SEE 2013 CBC SECTION 1913A.7.1 OR 1913.2.11.1*.

NOTE: DRILLED-IN ANCHORS OR POWER ACTUATED FASTENERS EMBEDMENT DEPTH SHALL BE LIMITED IN PRESTRESSED CONCRETE TO NOT IMPINGE TENSIONED REINFORCEMENT OR SPECIAL PROCEDURES SHALL BE DEVELOPED TO LOCATE AND CLEAR TENSIONED REINFORCEMENT.
3.4.3 PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.

4. CEILING FIXTURES, TERMINALS, AND DEVICES:
4.1 ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING MOUNTED MECHANICAL AIR TERMINALS AND SERVICES, SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH FIXTURE AND COMPONENT.
4.2 SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.
4.3 LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING GREATER THAN 20 LBS. MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN TWO (2) TAUT #12 GAGE WIRES WHERE LESS THAN 56 POUNDS, AND FOUR (4) TAUT #12 GAGE WIRES WHERE GREATER THAN OR EQUAL TO 56 POUNDS, AND ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
LIGHT FIXTURES AND HVAC DIFFUSERS SHALL HAVE SUPPLEMENTARY SUPPORTS AS REQUIRED, SEE DETAIL

4.4 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING PER SECTION 4.1 OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 4.3 OF THIS IR.
4.5 PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
4.6 ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT OR REPAIR OF UTILITY SWITCHES, VALVES, SENSOR, ETC. MAY BE ALLOWED IF THE PANEL IS LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A PERMANENTLY ATTACHED WARNING LABEL AS FOLLOWS:

"WARNING: 1) DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING.
2) DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING."
IF FIRE FIGHTER ACCESS IS REQUIRED PER CBC SECTION 1209.2 IN ATTICS OF COMBUSTIBLE CONSTRUCTION, THE PRESCRIPTIVE SUSPENDED CEILING SYSTEM PRESCRIBED IN THIS IR IS NOT APPLICABLE, AND THE CEILING SHALL BE FRAMED AND DESIGNED FOR SUCH LOADING.

5. LATERAL FORCE BRACING ASSEMBLY INSTALLATION:

A) LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER ARE REQUIRED FOR ALL CEILING AREAS.
EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA NOT TO EXCEED 144 SQUARE FEET, FOR ALL VALUES OF SDS, WHEN PERIMETER SUPPORT IS PROVIDED IN ACCORDANCE WITH SECTION 2.2 OF THIS IR AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

B) LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED PER TABLE 1 FOR ALL VALUES OF THE COMPONENT IMPORTANCE FACTOR (IP) OF THE CEILING.

C) THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8' X 12', THE EDGE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING.

D) THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE HORIZONTAL PLANE AND WIRES SHALL BE TAUT. SPLICES IN BRACING WIRES SHALL DEVELOP THE WIRE ALLOWABLE LOAD.

E) COMPRESSION STRUTS SHALL MEET THE FOLLOWING REQUIREMENTS:
- THE STRUT SHALL BE SIZED TO ADEQUATELY RESIST THE VERTICAL COMPONENT FORCE INDUCED BY THE CEILING BRACING WIRES AND HAVE A MAXIMUM KL/R NOT TO EXCEED 300. THE STRUTS LISTED IN APPENDIX A MEET THIS REQUIREMENT FOR CEILINGS COMPLYING WITH THE GENERAL REQUIREMENTS OF THIS IR.
- THE STRUT SHALL NOT BE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB.

TABLE 1
LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, S_{DS}	Brace Assembly Spacing (ft.)	
	$z/h \le 0.5^{a}$	$z/h > 0.5^{a,b}$
~~$S_{DS} \le 1.15$~~	~~12 x 12~~	~~12 x 12~~
$1.15 < S_{DS} \le 1.73$	12 x 12	~~8 x 12~~
~~$S_{DS} > 1.73$~~	~~8 x 12~~	~~8 x 8~~

CEILING NOTES (SUSPENDED GYP. BD)

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

Robert M. Simons
ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
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DATE 2/3/2017
FILE # 19-H10

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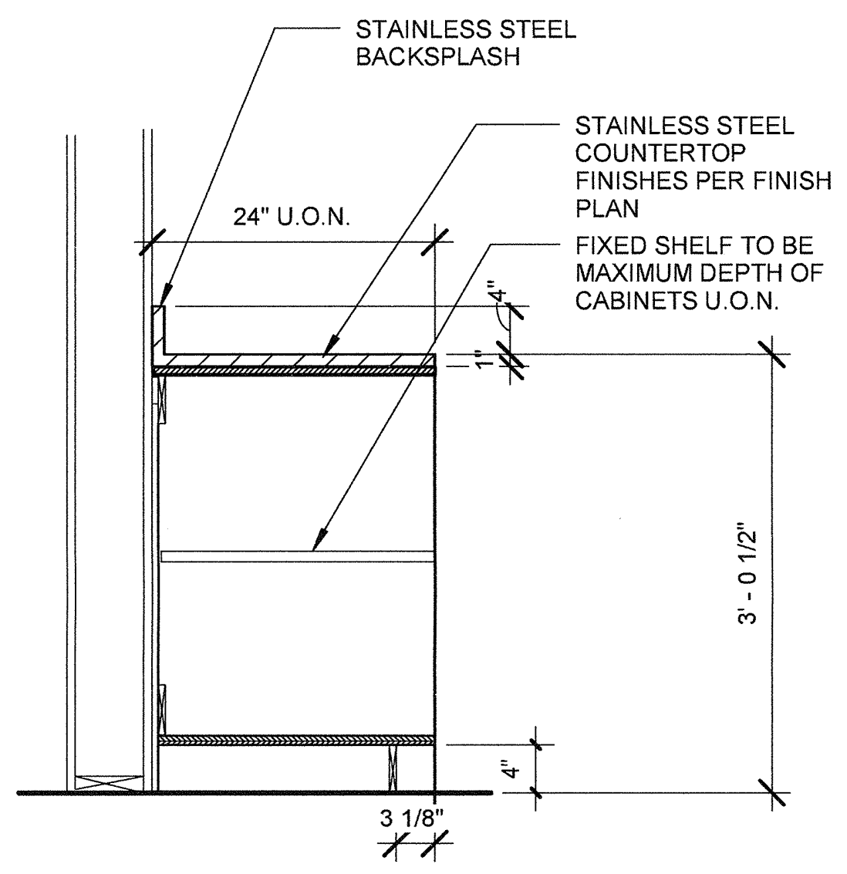
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated
SHEET NUMBER: **A610**
SHEET TITLE:

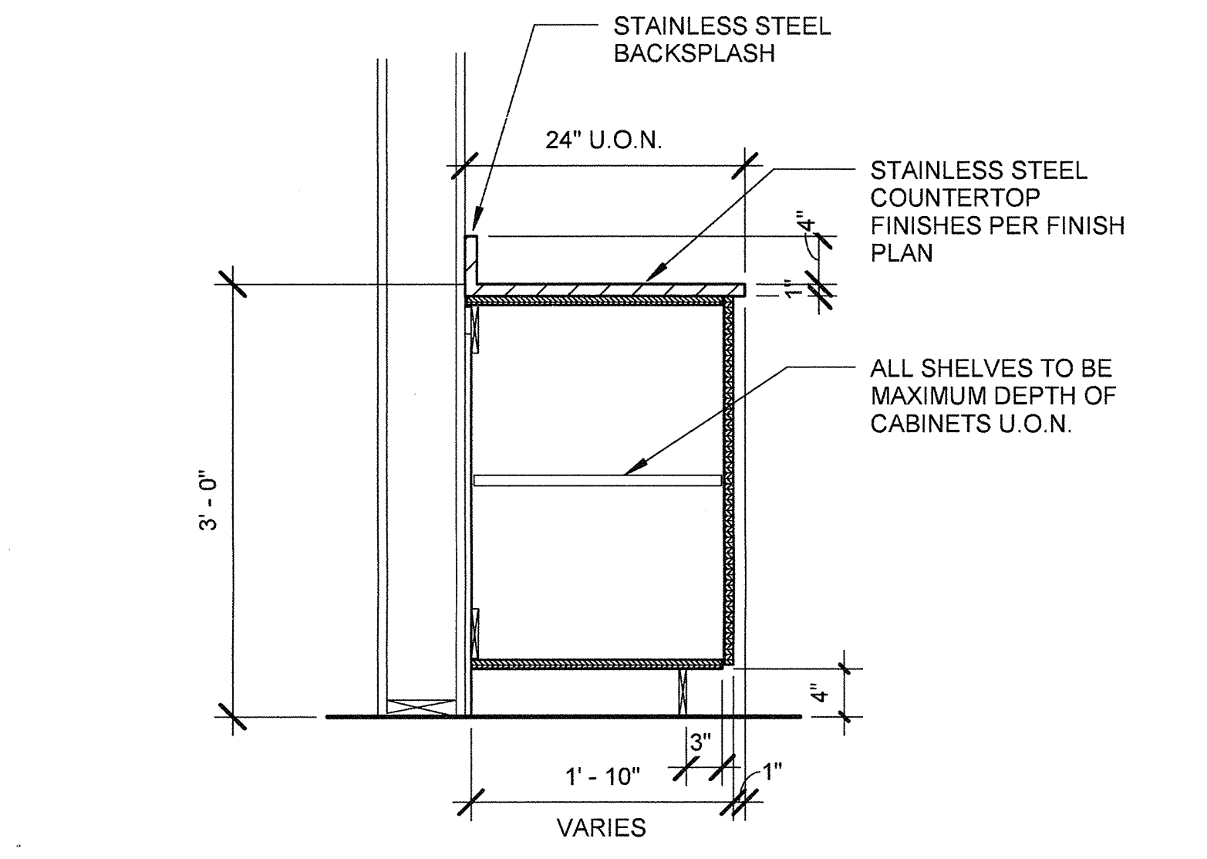
SUSPENDED CEILINGS

SVA ARCHITECTS

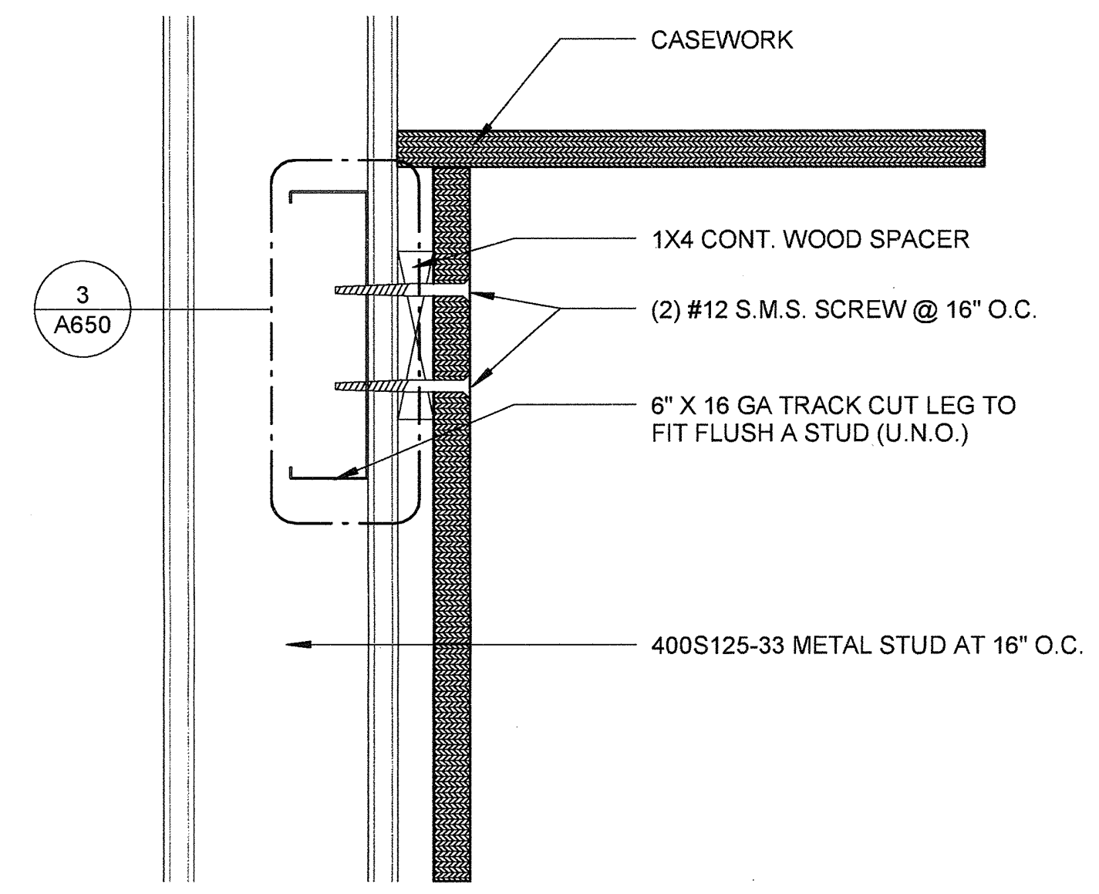
3 MacArthur Place, Suite 850
Santa Ana, CA 92707
T (949) 809-3380
WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


STAINLESS STEEL BACKSPLASH
STAINLESS STEEL COUNTERTOP FINISHES PER FINISH PLAN
FIXED SHELF TO BE MAXIMUM DEPTH OF CABINETS U.O.N.
24" U.O.N.
4"
1"
3' - 0 1/2"
4"
3 1/8"

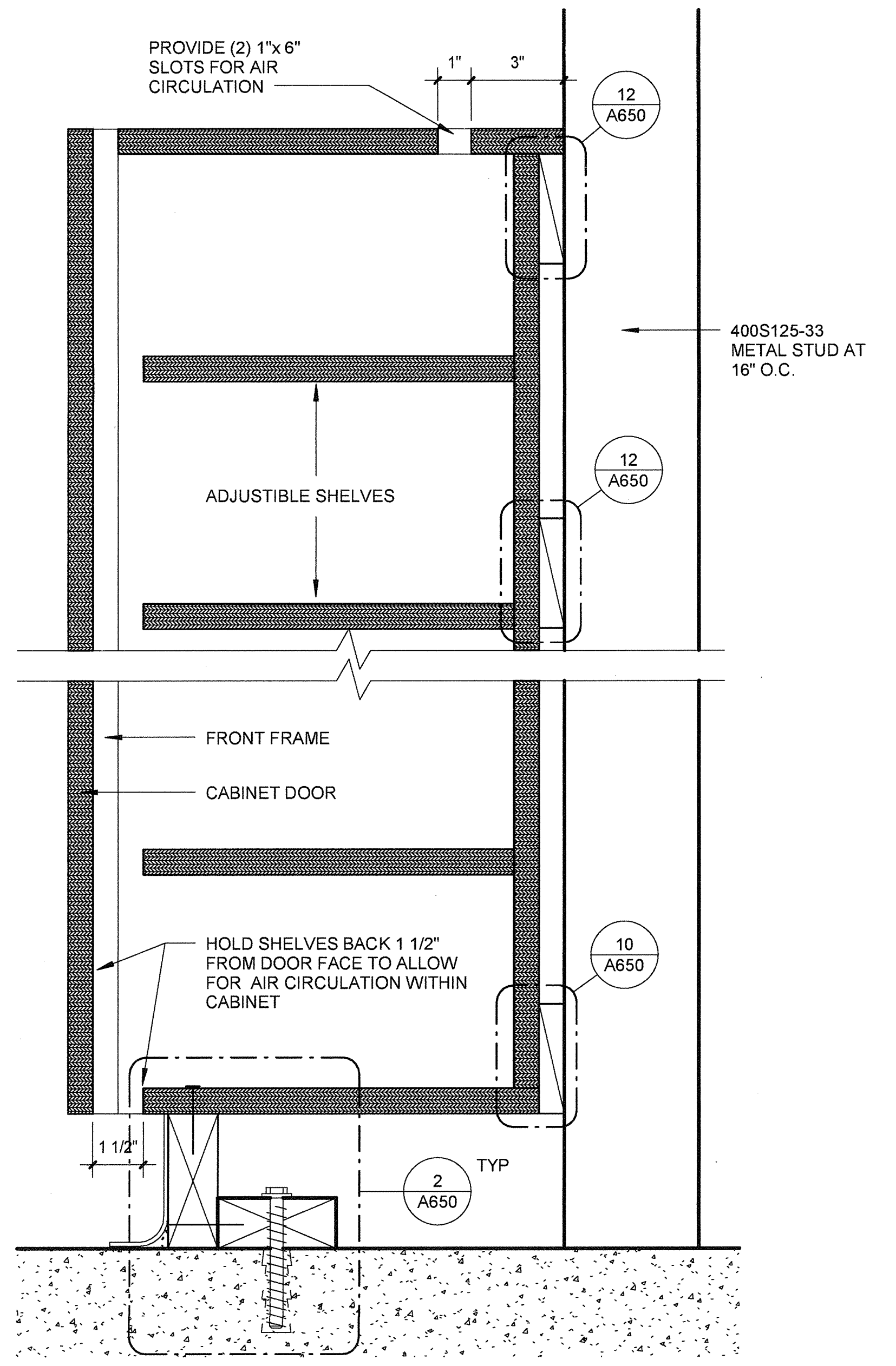
BASE WALL CABINET W/ SHELF
3/4" = 1'-0" 22


STAINLESS STEEL BACKSPLASH
24" U.O.N.
STAINLESS STEEL COUNTERTOP FINISHES PER FINISH PLAN
4"
1"
ALL SHELVES TO BE MAXIMUM DEPTH OF CABINETS U.O.N.
3' - 0"
4"
3"
1' - 10"
1"
VARIES

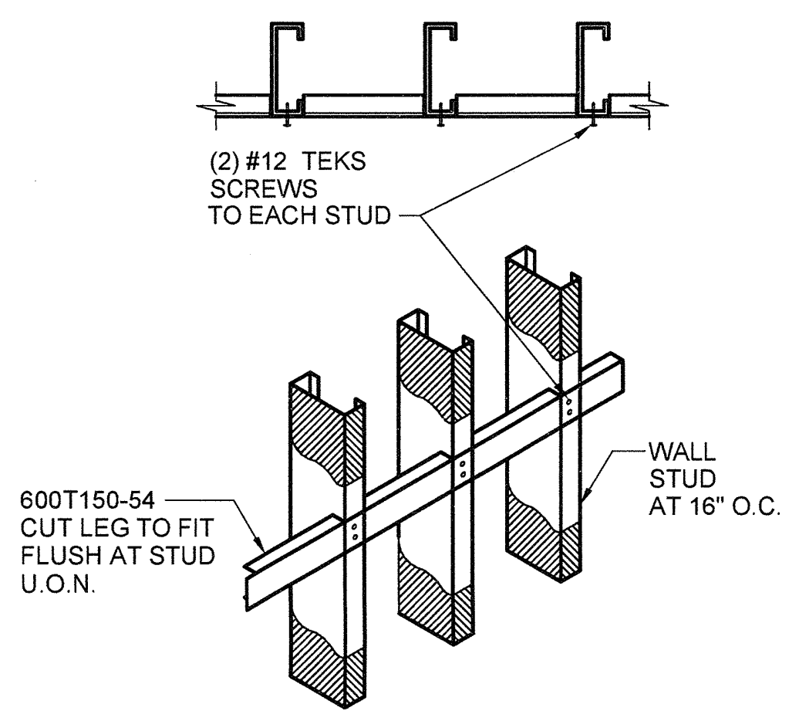
BASE WALL CABINET SECTION
3/4" = 1'-0" 18


CASEWORK
3
A650
1X4 CONT. WOOD SPACER
(2) #12 S.M.S. SCREW @ 16" O.C.
6" X 16 GA TRACK CUT LEG TO FIT FLUSH A STUD (U.N.O.)
400S125-33 METAL STUD AT 16" O.C.

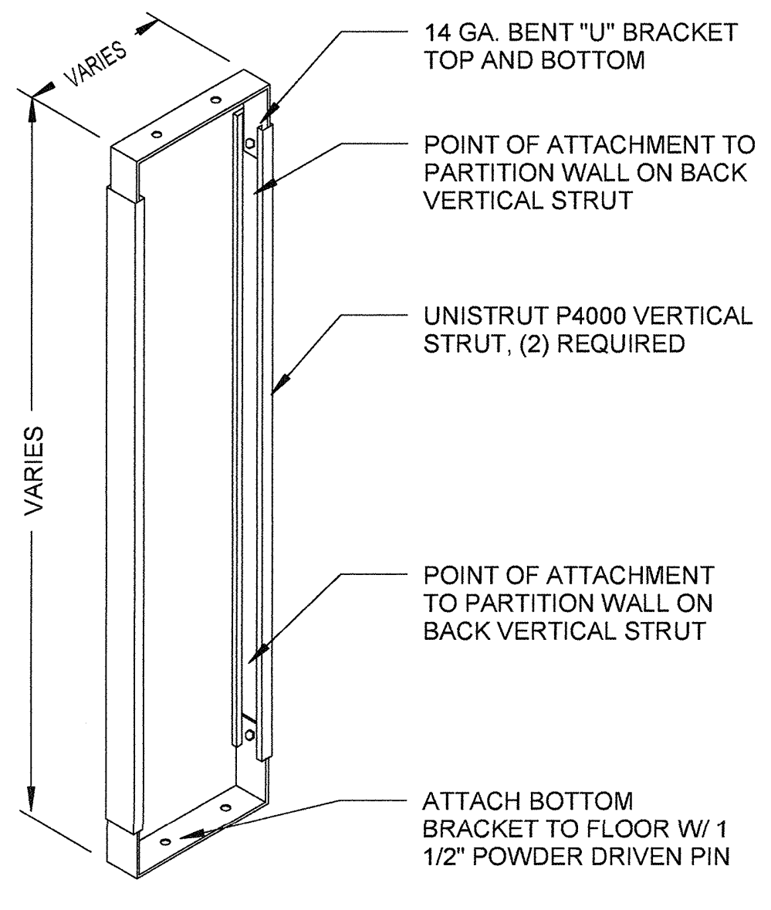
TYP. CASEWORK ANCHORAGE
3" = 1'-0" 12


PROVIDE (2) 1"x 6" SLOTS FOR AIR CIRCULATION
1"
3"
12
A650
400S125-33 METAL STUD AT 16" O.C.
12
A650
ADJUSTIBLE SHELVES
FRONT FRAME
CABINET DOOR
HOLD SHELVES BACK 1 1/2" FROM DOOR FACE TO ALLOW FOR AIR CIRCULATION WITHIN CABINET
10
A650
1 1/2"
2
A650
TYP

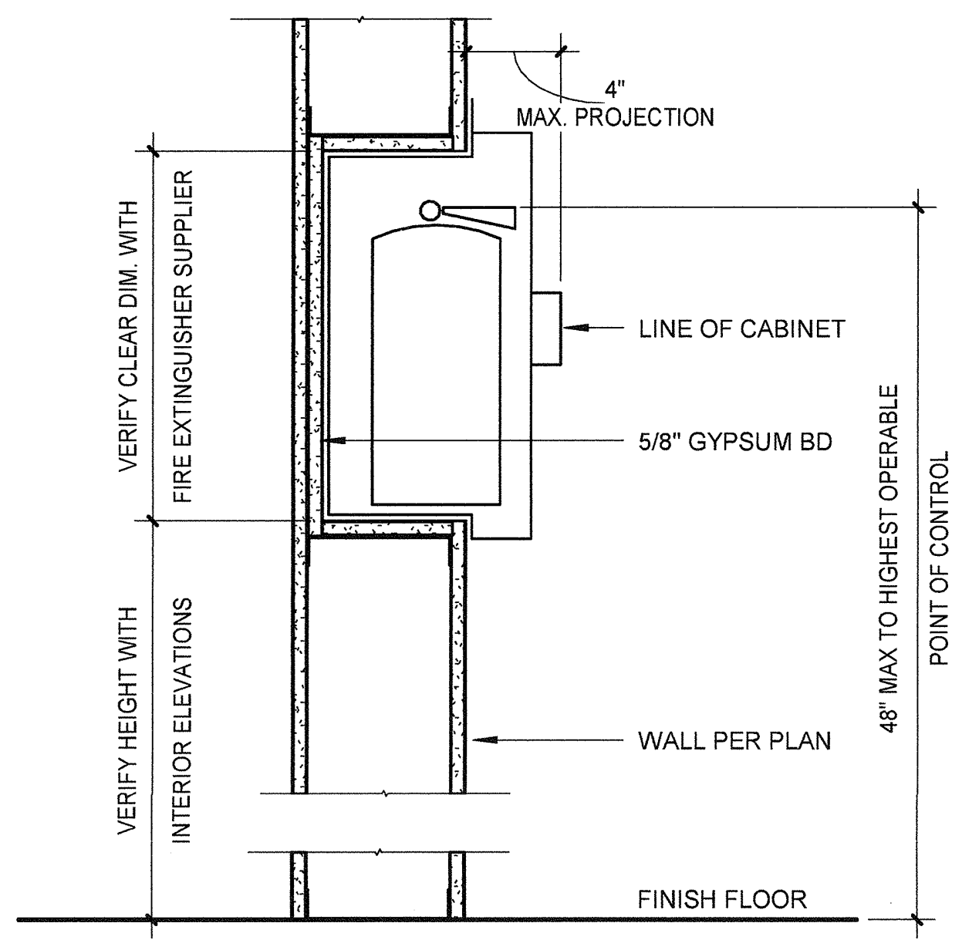
TALL STORAGE CABINET SECTION
3" = 1'-0" 8


(2) #12 TEKS SCREWS TO EACH STUD
600T150-54 CUT LEG TO FIT FLUSH AT STUD U.O.N.
WALL STUD AT 16" O.C.

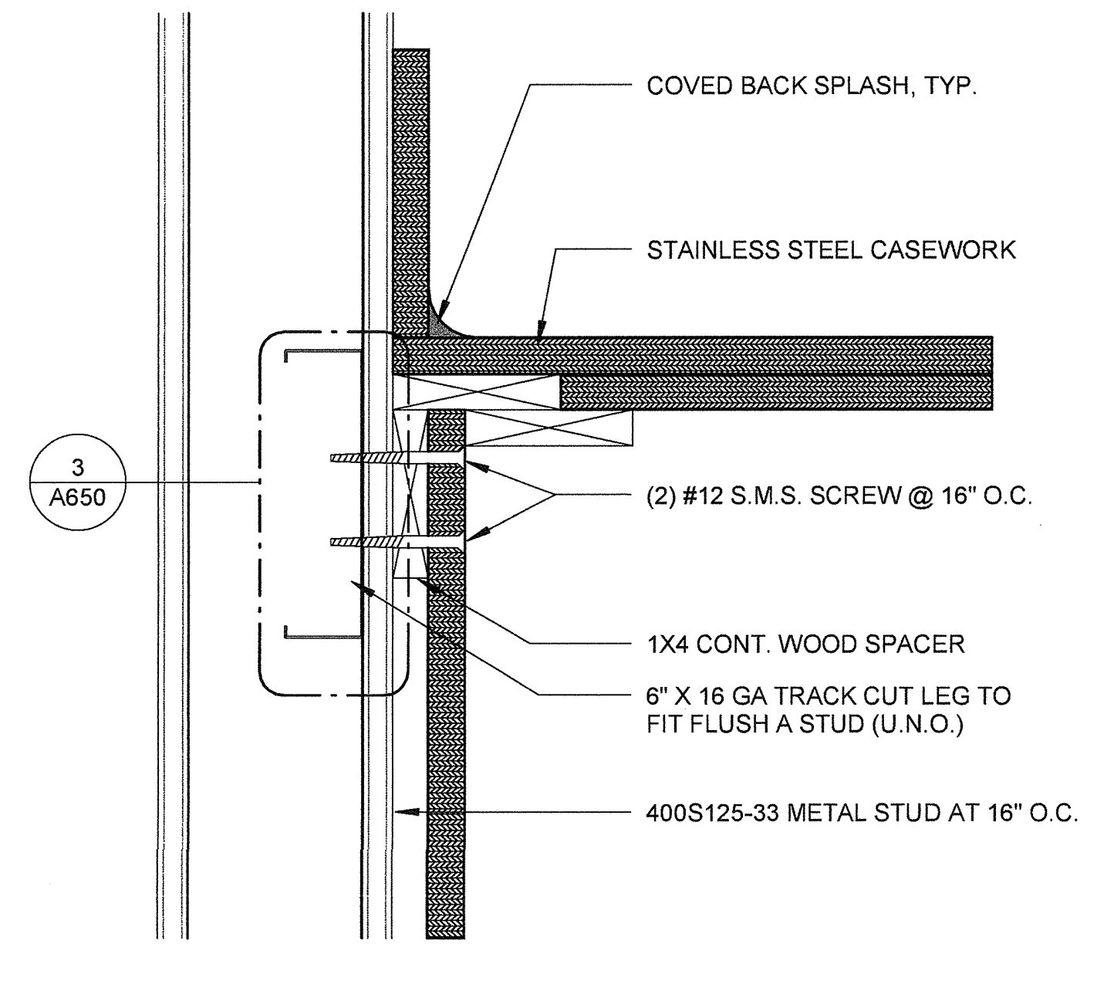
BACKING - METAL STUD
1" = 1'-0" 3


VARIES
VARIES
14 GA. BENT "U" BRACKET TOP AND BOTTOM
POINT OF ATTACHMENT TO PARTITION WALL ON BACK VERTICAL STRUT
UNISTRUT P4000 VERTICAL STRUT, (2) REQUIRED
POINT OF ATTACHMENT TO PARTITION WALL ON BACK VERTICAL STRUT
ATTACH BOTTOM BRACKET TO FLOOR W/ 1 1/2" POWDER DRIVEN PIN

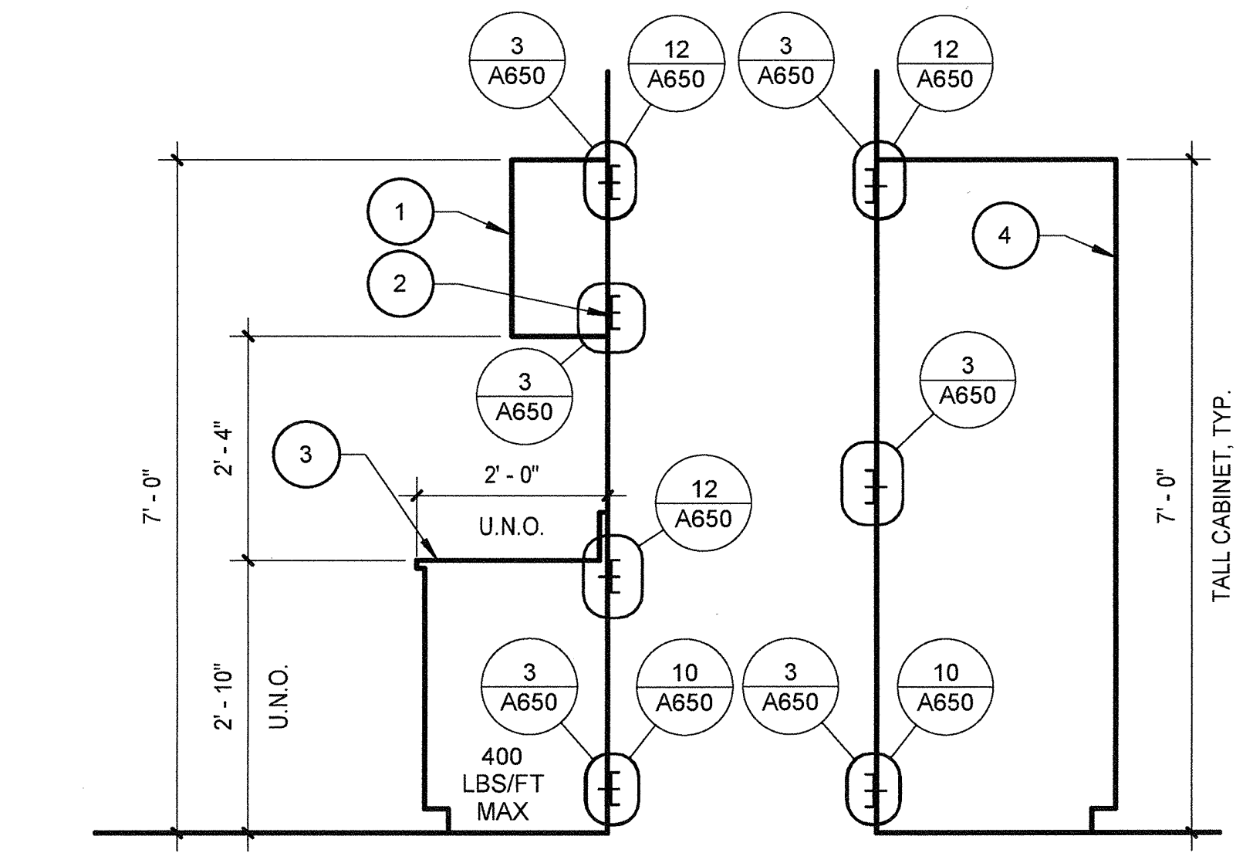
PIPE SUPPORT ASSEMBLY
3/4" = 1'-0" 21


4" MAX. PROJECTION
VERIFY CLEAR DIM. WITH FIRE EXTINGUISHER SUPPLIER
LINE OF CABINET
5/8" GYPSUM BD
48" MAX TO HIGHEST OPERABLE POINT OF CONTROL
VERIFY HEIGHT WITH INTERIOR ELEVATIONS
WALL PER PLAN
FINISH FLOOR

SEMIRECESSED FIRE EXTINGUISHER
1 1/2" = 1'-0" 17


COVED BACK SPLASH, TYP.
STAINLESS STEEL CASEWORK
3
A650
(2) #12 S.M.S. SCREW @ 16" O.C.
1X4 CONT. WOOD SPACER
6" X 16 GA TRACK CUT LEG TO FIT FLUSH A STUD (U.N.O.)
400S125-33 METAL STUD AT 16" O.C.

MID ANCHORAGE
3" = 1'-0" 11



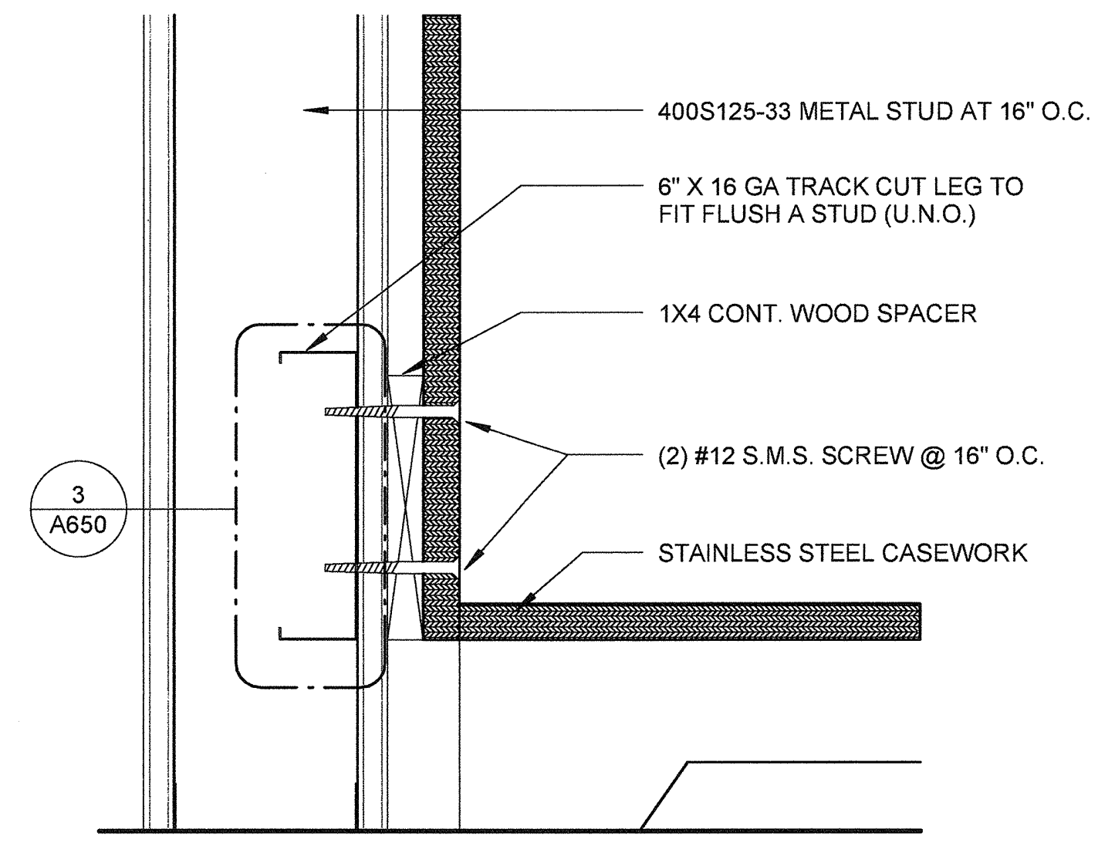
① WALL CABINET

② CABINET TO BLKG #12 SMS @ 12" O.C. TYP.
WATER HEATER TO BLKG #14 SMS @ 16" O.C. TYP.
MIN. 3 SCREWS (WHERE INDICATED ONLY)

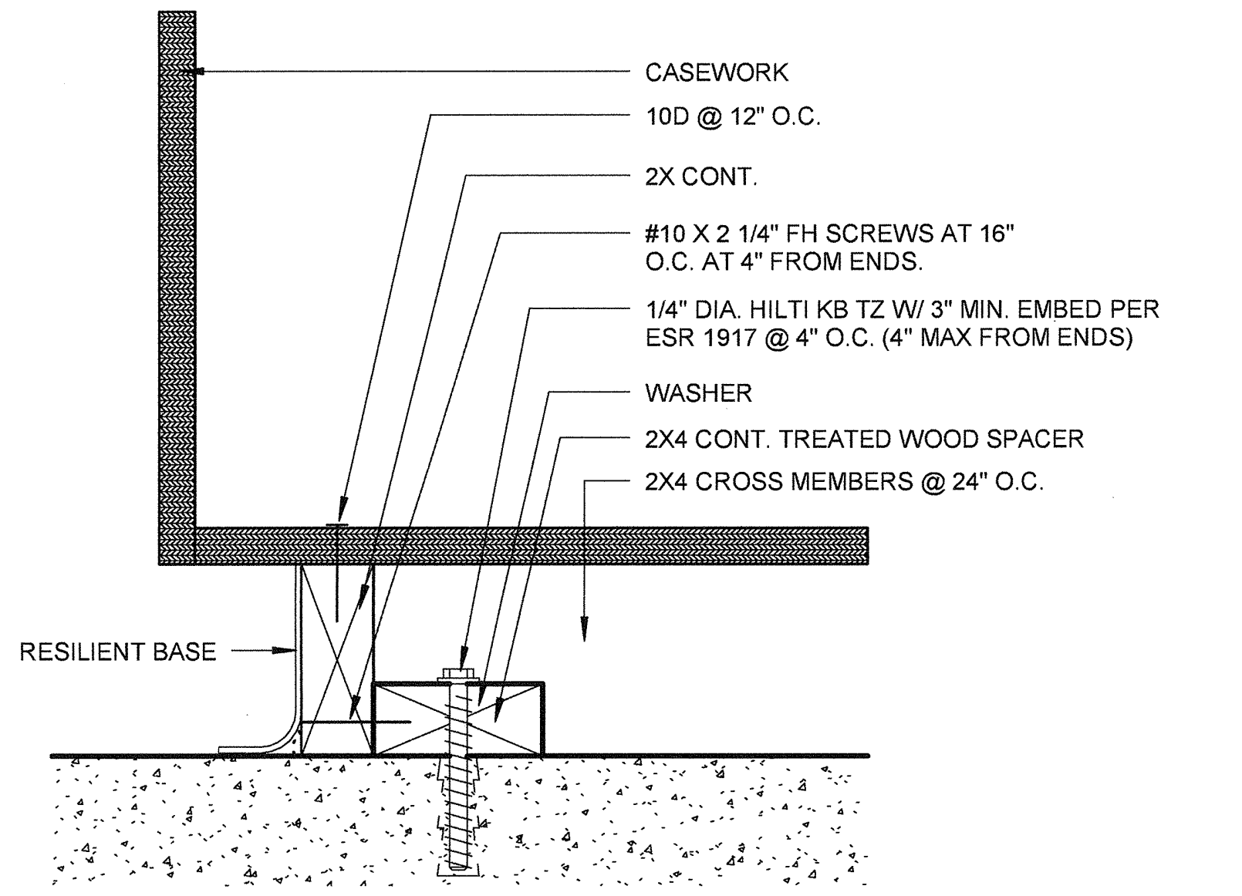
③ BASE CABINET

④ FULL HEIGHT CABINET PER. DET. 8/A650

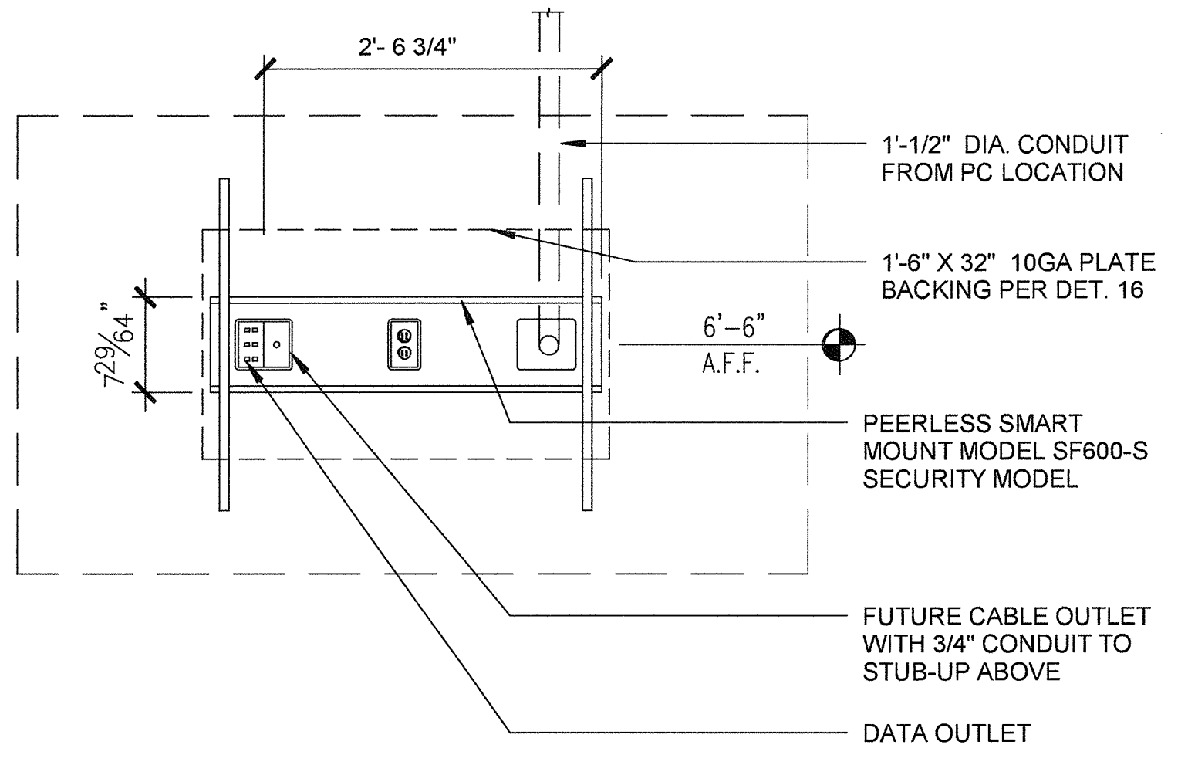
TYPICAL ANCHORAGE
1/2" = 1'-0" 2


400S125-33 METAL STUD AT 16" O.C.
6" X 16 GA TRACK CUT LEG TO FIT FLUSH A STUD (U.N.O.)
1X4 CONT. WOOD SPACER
3
A650
(2) #12 S.M.S. SCREW @ 16" O.C.
STAINLESS STEEL CASEWORK

BASE ANCHORAGE @ BACK
3" = 1'-0" 10


CASEWORK
10D @ 12" O.C.
2X CONT.
#10 X 2 1/4" FH SCREWS AT 16" O.C. AT 4" FROM ENDS.
1/4" DIA. HILTI KB TZ W/ 3" MIN. EMBED PER ESR 1917 @ 4" O.C. (4" MAX FROM ENDS)
WASHER
2X4 CONT. TREATED WOOD SPACER
2X4 CROSS MEMBERS @ 24" O.C.
RESILIENT BASE

BASE ANCHORAGE @ FRONT
3" = 1'-0" 7


2'- 6 3/4"
1'-1/2" DIA. CONDUIT FROM PC LOCATION
1'-6" X 32" 10GA PLATE BACKING PER DET. 16
7 29/64"
6'–6" A.F.F.
PEERLESS SMART MOUNT MODEL SF600-S SECURITY MODEL
FUTURE CABLE OUTLET WITH 3/4" CONDUIT TO STUB-UP ABOVE
DATA OUTLET

TV BRACKET
1/2" = 1'-0" 4

1. CASEWORK SHALL COMPLY W/ THE REQUIREMENTS OF THE WOODWORK INSTITUTE.
2. ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS.
3. FILLER STRIPS ARE REQUIRED AT ENDS OF CABINETS WHERE CABINETS ARE ADJACENT TO WALLS.
4. ALL FILLER STRIPS AT TALL AND WALL CABINETS TO HAVE TOP AND BOTTOM RETURNS.
5. ALL PLAN DIMENSIONS OF CASEWORK ARE CABINET DIMENSIONS ONLY AND DO NOT INCLUDE TOPS.
6. PROVIDE FINISHED END PANELS FOR SUPPORT OF COUNTERTOPS AT UNDERCOUNTER EQUIPMENT OR KNEE SPACES WHERE THERE IS NO ADJACENT WALL OR CABINET THAT CAN BE USE FOR SUPPORT.
7. FINISH ALL EXPOSED PORTIONS OF CASEWORK AND COUNTERTOPS.
8. ALL UNITS, INCLUDING OPEN UNITS, SHALL HAVE CASEWORK MANUFACTURER'S STANDARD CABINET LINER UNLESS OTHERWISE NOTED.
9. ALL TOE SPACES SHALL BE 4" IN HEIGHT AND 3" IN DEPTH AND SHALL RETURN TO WALL WHERE ENDS OF CABINETS ARE EXPOSED.
10. ALL SHELVING SHALL BE ADJUSTABLE UNLESS OTHERWISE NOTED.
11. ALL COUNTERTOPS SHALL BE OF MAXIMUM PRACTICAL LENGTHS REQUIRED TO CONFORM TO OVERALL BASE CABINET DIMENIONS.
12. PROVIDE BACKSPLASH COUNTERTOP RETURN AT ENDS OF COUNTERTOPS WHERE ADJACENT TO WALL OR OTHER FULL HEIGHT CASEWORK.
13. ALL SINKS, SINK TRIM & ELECTRICAL ITEMS SHALL BE FURNISHED BY OTHER THAN THE CASEWORK MANUFACTURER UNLESS OTHERWISE NOTED.
14. ALL OTHER COUNTERTOPS SHALL BE PLASTIC LAMINATE UNLESS OTHERWISE NOTED.
15. ALL W.I. CASEWORK TO BE FACE FRAME MODEL.

CASEWORK NOTES

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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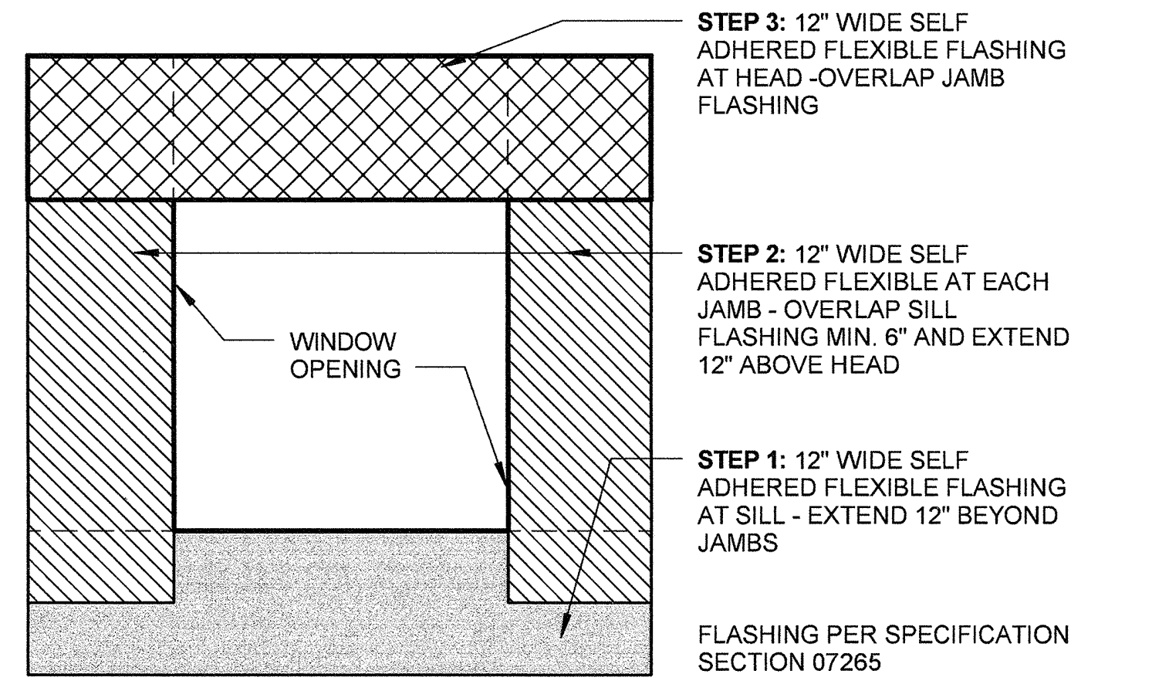
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A650
SHEET TITLE:

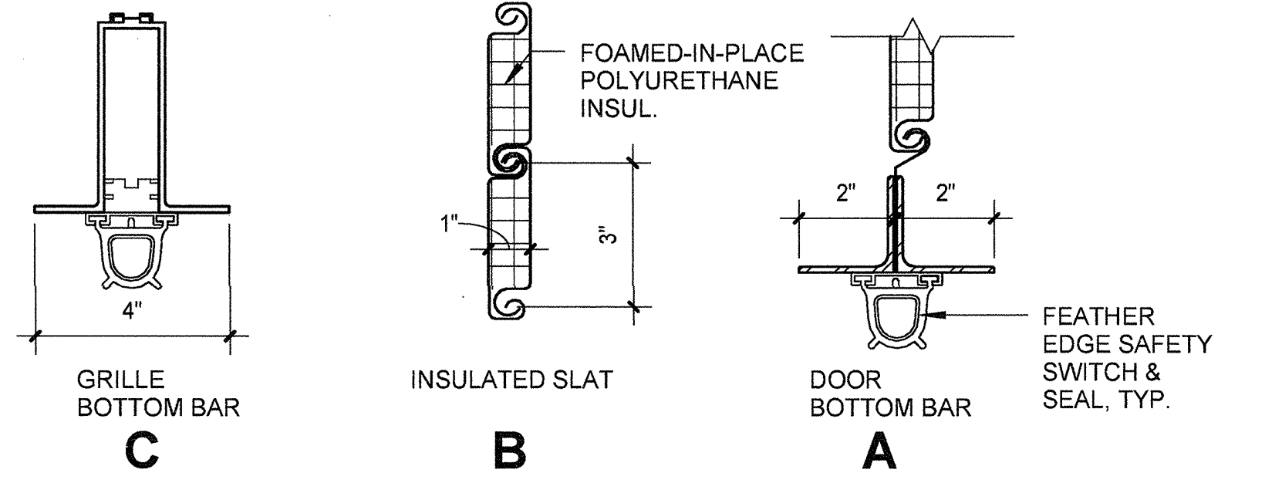
CABINETRY AND CASEWORK DETAILS

SVA ARCHITECTS

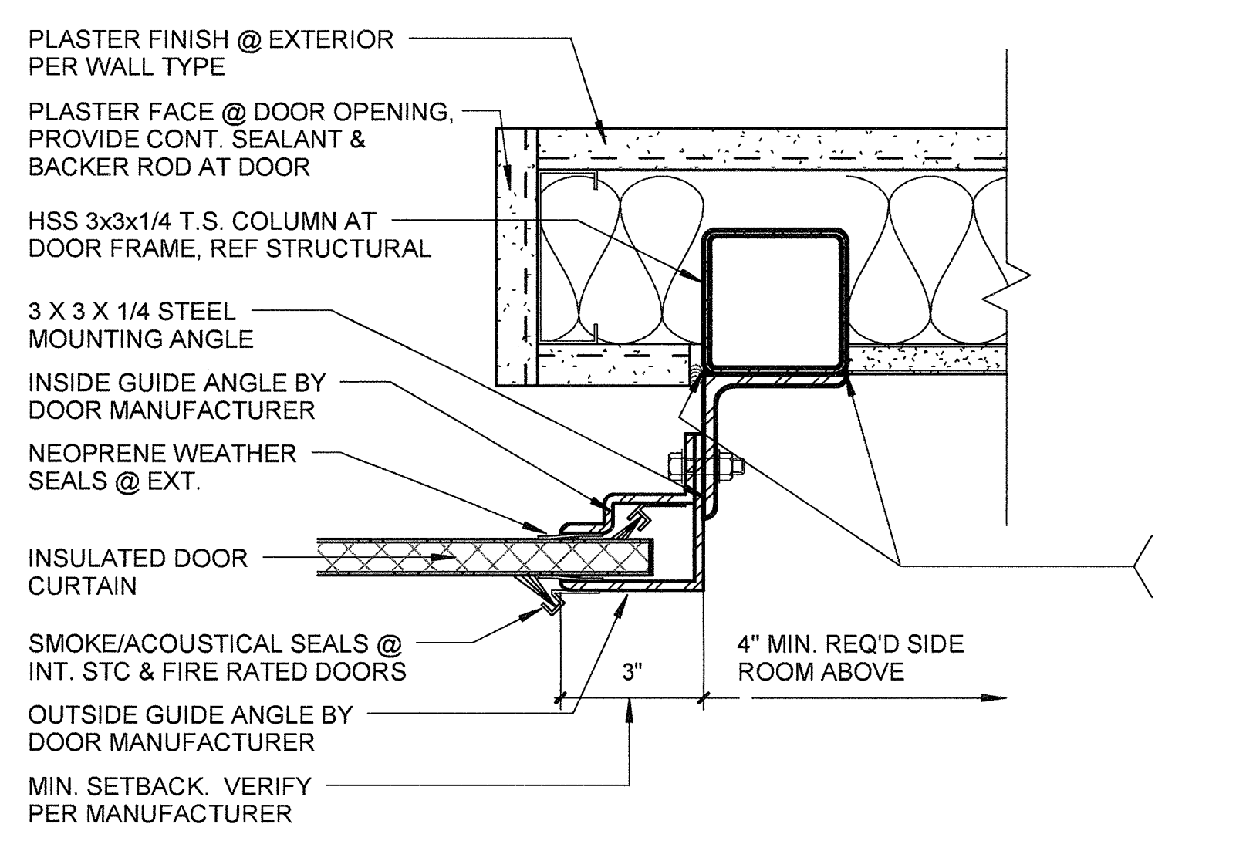
3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


STEP 3: 12" WIDE SELF ADHERED FLEXIBLE FLASHING AT HEAD -OVERLAP JAMB FLASHING
STEP 2: 12" WIDE SELF ADHERED FLEXIBLE AT EACH JAMB - OVERLAP SILL FLASHING MIN. 6" AND EXTEND 12" ABOVE HEAD
WINDOW OPENING
STEP 1: 12" WIDE SELF ADHERED FLEXIBLE FLASHING AT SILL - EXTEND 12" BEYOND JAMBS
FLASHING PER SPECIFICATION SECTION 07265

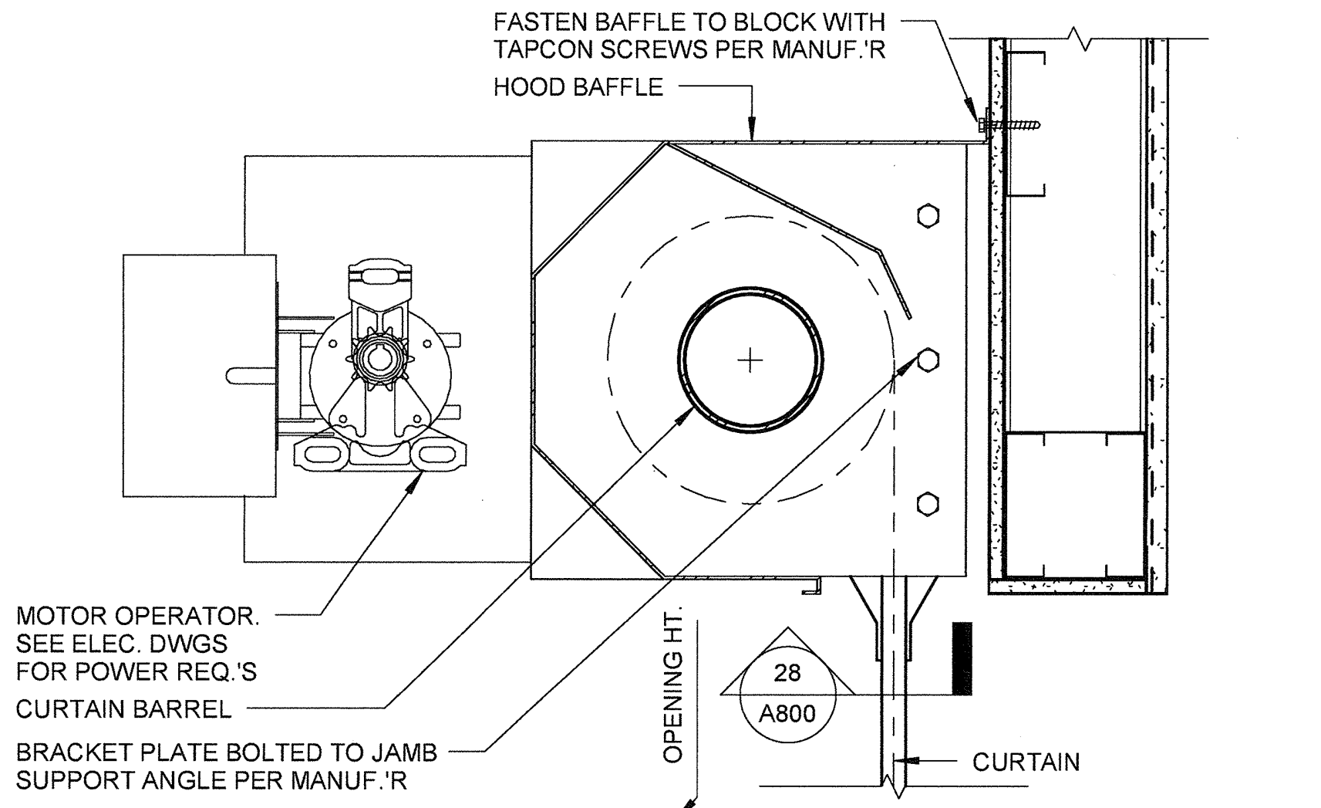
WINDOW FLASHING 1 1/2" = 1'-0" **30**


FOAMED-IN-PLACE POLYURETHANE INSUL.
4"
1"
3"
2"
2"
FEATHER EDGE SAFETY SWITCH & SEAL, TYP.
GRILLE BOTTOM BAR
C
INSULATED SLAT
B
DOOR BOTTOM BAR
A

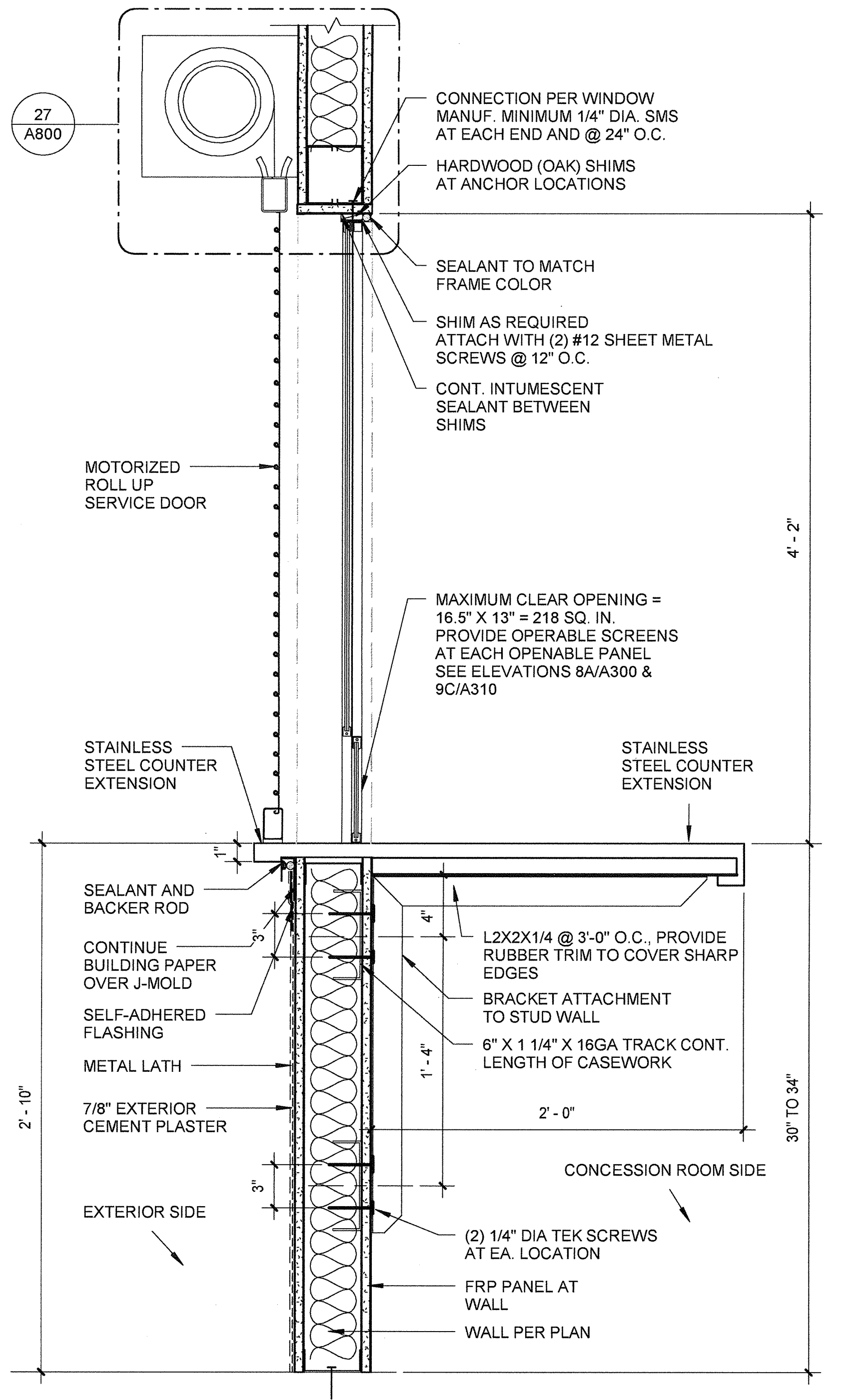
OVERHEAD COILING DOOR DETAILS 3" = 1'-0" **29**


PLASTER FINISH @ EXTERIOR PER WALL TYPE
PLASTER FACE @ DOOR OPENING, PROVIDE CONT. SEALANT & BACKER ROD AT DOOR
HSS 3x3x1/4 T.S. COLUMN AT DOOR FRAME, REF STRUCTURAL
3 X 3 X 1/4 STEEL MOUNTING ANGLE
INSIDE GUIDE ANGLE BY DOOR MANUFACTURER
NEOPRENE WEATHER SEALS @ EXT.
INSULATED DOOR CURTAIN
SMOKE/ACOUSTICAL SEALS @ INT. STC & FIRE RATED DOORS
OUTSIDE GUIDE ANGLE BY DOOR MANUFACTURER
MIN. SETBACK. VERIFY PER MANUFACTURER
3"
4" MIN. REQ'D SIDE ROOM ABOVE

OVERHEAD COILING DOOR JAMB 3" = 1'-0" **28**

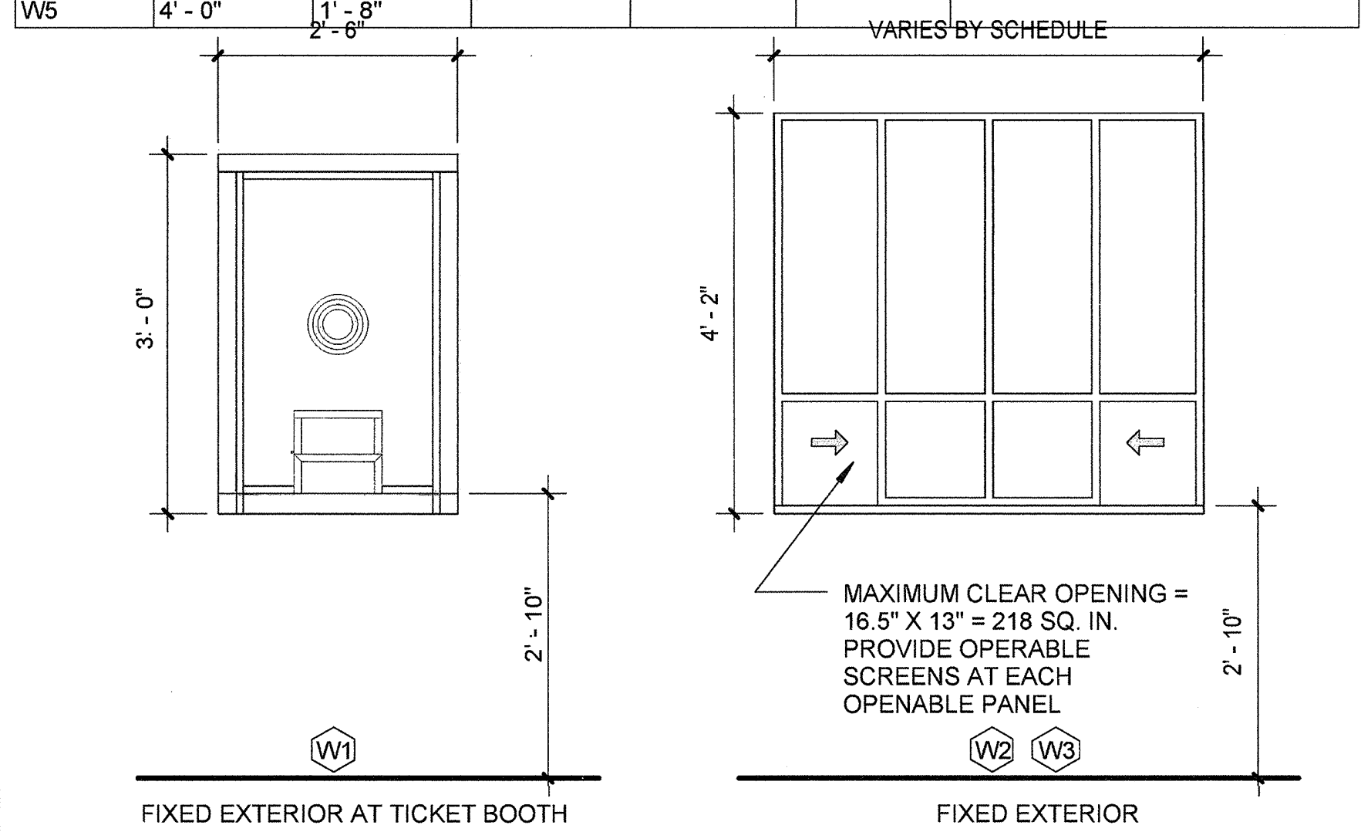

FASTEN BAFFLE TO BLOCK WITH TAPCON SCREWS PER MANUF.'R
HOOD BAFFLE
MOTOR OPERATOR. SEE ELEC. DWGS FOR POWER REQ.'S
CURTAIN BARREL
BRACKET PLATE BOLTED TO JAMB SUPPORT ANGLE PER MANUF.'R
OPENING HT.
28
A800
CURTAIN

OVERHEAD COILING DOOR HEAD 1 1/2" = 1'-0" **27**


27
A800
CONNECTION PER WINDOW MANUF. MINIMUM 1/4" DIA. SMS AT EACH END AND @ 24" O.C.
HARDWOOD (OAK) SHIMS AT ANCHOR LOCATIONS
SEALANT TO MATCH FRAME COLOR
SHIM AS REQUIRED ATTACH WITH (2) #12 SHEET METAL SCREWS @ 12" O.C.
CONT. INTUMESCENT SEALANT BETWEEN SHIMS
MOTORIZED ROLL UP SERVICE DOOR
MAXIMUM CLEAR OPENING = 16.5" X 13" = 218 SQ. IN. PROVIDE OPERABLE SCREENS AT EACH OPENABLE PANEL SEE ELEVATIONS 8A/A300 & 9C/A310
4' - 2"
STAINLESS STEEL COUNTER EXTENSION
STAINLESS STEEL COUNTER EXTENSION
1"
SEALANT AND BACKER ROD
CONTINUE BUILDING PAPER OVER J-MOLD
SELF-ADHERED FLASHING
METAL LATH
7/8" EXTERIOR CEMENT PLASTER
3"
4"
L2X2X1/4 @ 3'-0" O.C., PROVIDE RUBBER TRIM TO COVER SHARP EDGES
BRACKET ATTACHMENT TO STUD WALL
6" X 1 1/4" X 16GA TRACK CONT. LENGTH OF CASEWORK
1' - 4"
2' - 0"
2' - 10"
30" TO 34"
CONCESSION ROOM SIDE
EXTERIOR SIDE
3"
(2) 1/4" DIA TEK SCREWS AT EA. LOCATION
FRP PANEL AT WALL
WALL PER PLAN

EXT. SERVICE WINDOW 1 1/2" = 1'-0" **25**

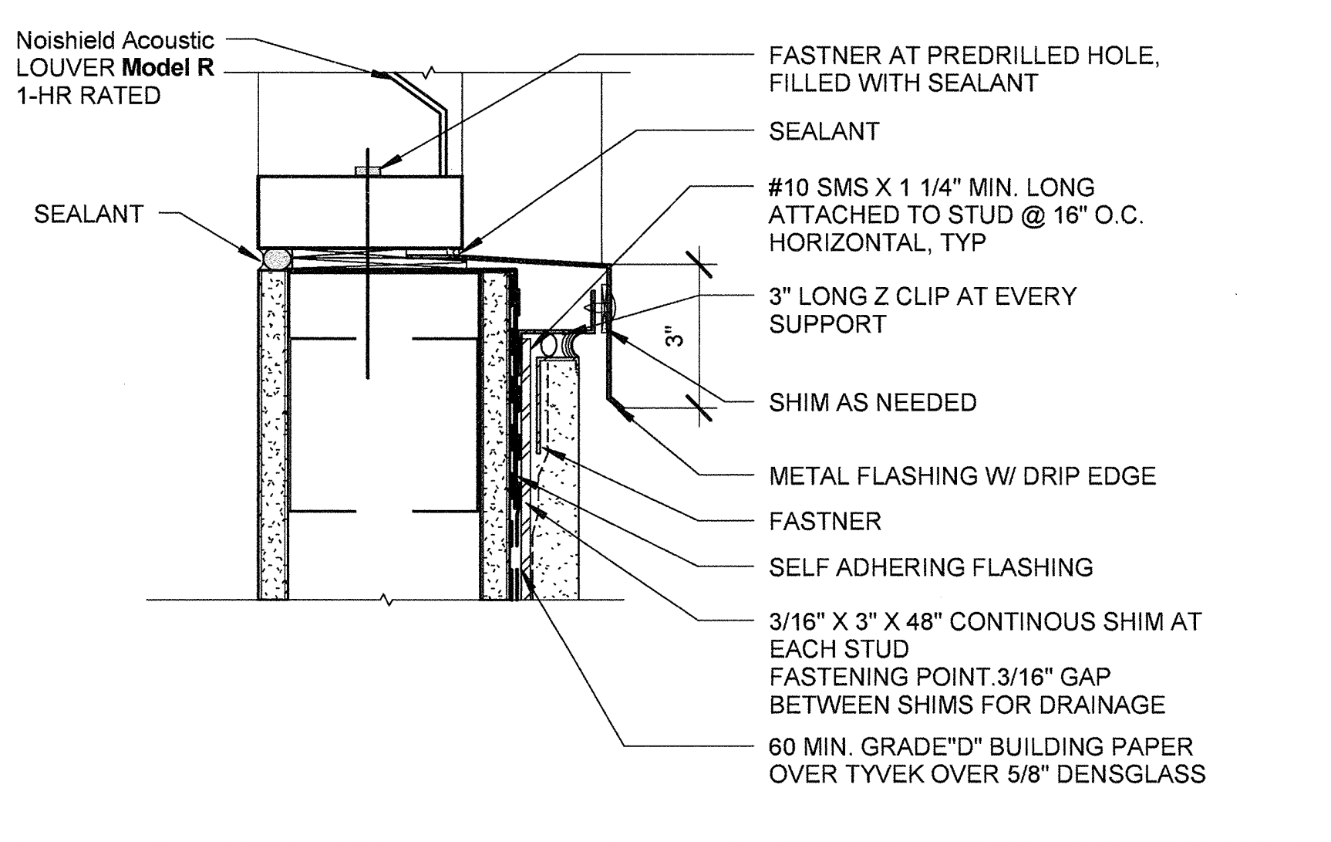
SCHEDULE						
TYPE	WIDTH	HEIGHT	FIRE RATING	FRAME MATERIAL	FRAME FINISH	THICKNESS
W1	2' - 6"	3' - 0"	–	ALUM	FF	1/4 CLEAR
W2	5' - 6"	4' - 2"	–	ALUM	FF	1/4 CLEAR
W3	4' - 6"	4' - 2"	–	ALUM	FF	1/4 CLEAR
W5	4' - 0"	1' - 8"				


2' - 6"
3' - 0"
2' - 10"
W1
VARIES BY SCHEDULE
4' - 2"
MAXIMUM CLEAR OPENING = 16.5" X 13" = 218 SQ. IN. PROVIDE OPERABLE SCREENS AT EACH OPENABLE PANEL
2' - 10"
W2
W3

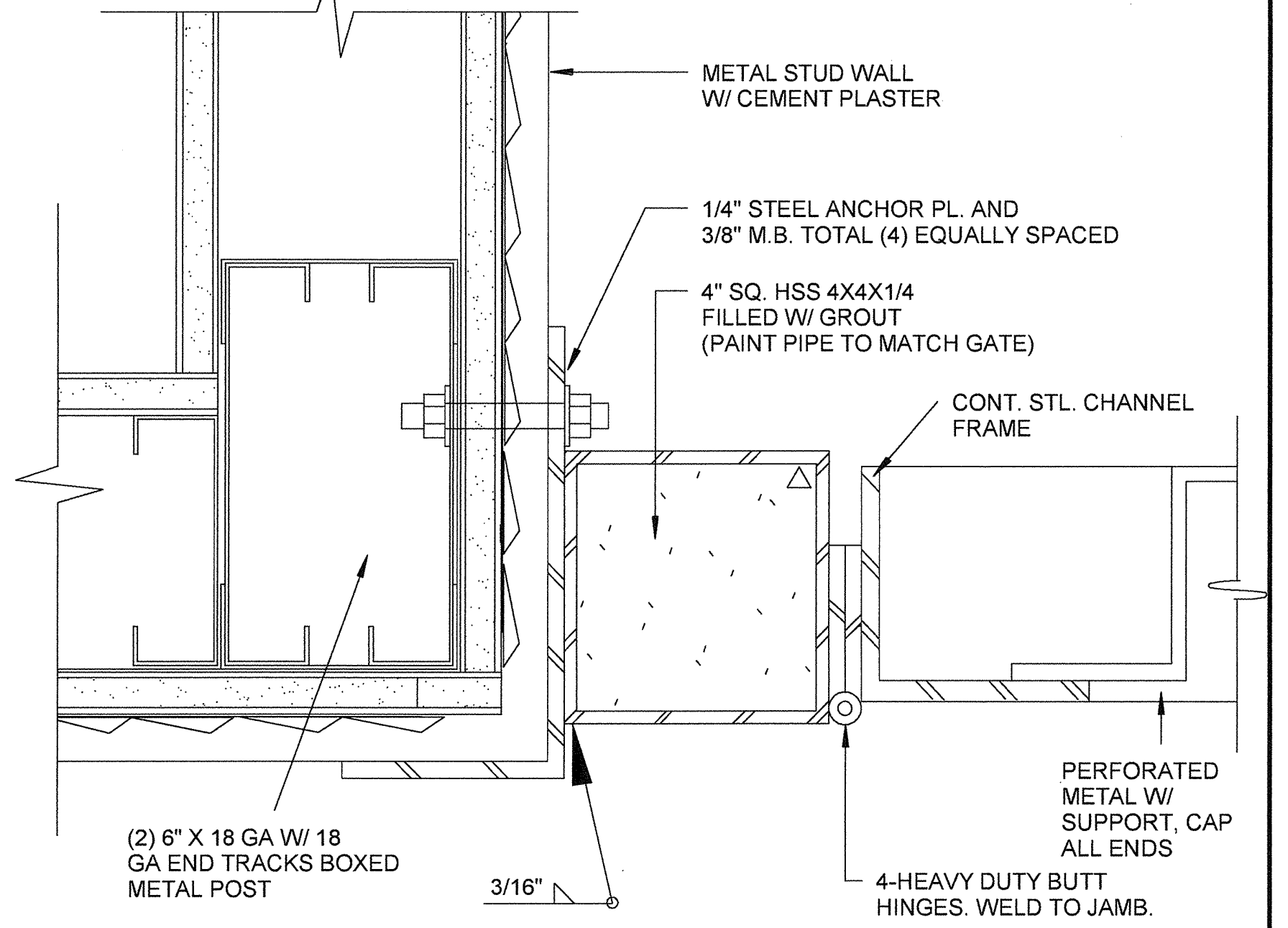
FIXED EXTERIOR AT TICKET BOOTH

FIXED EXTERIOR

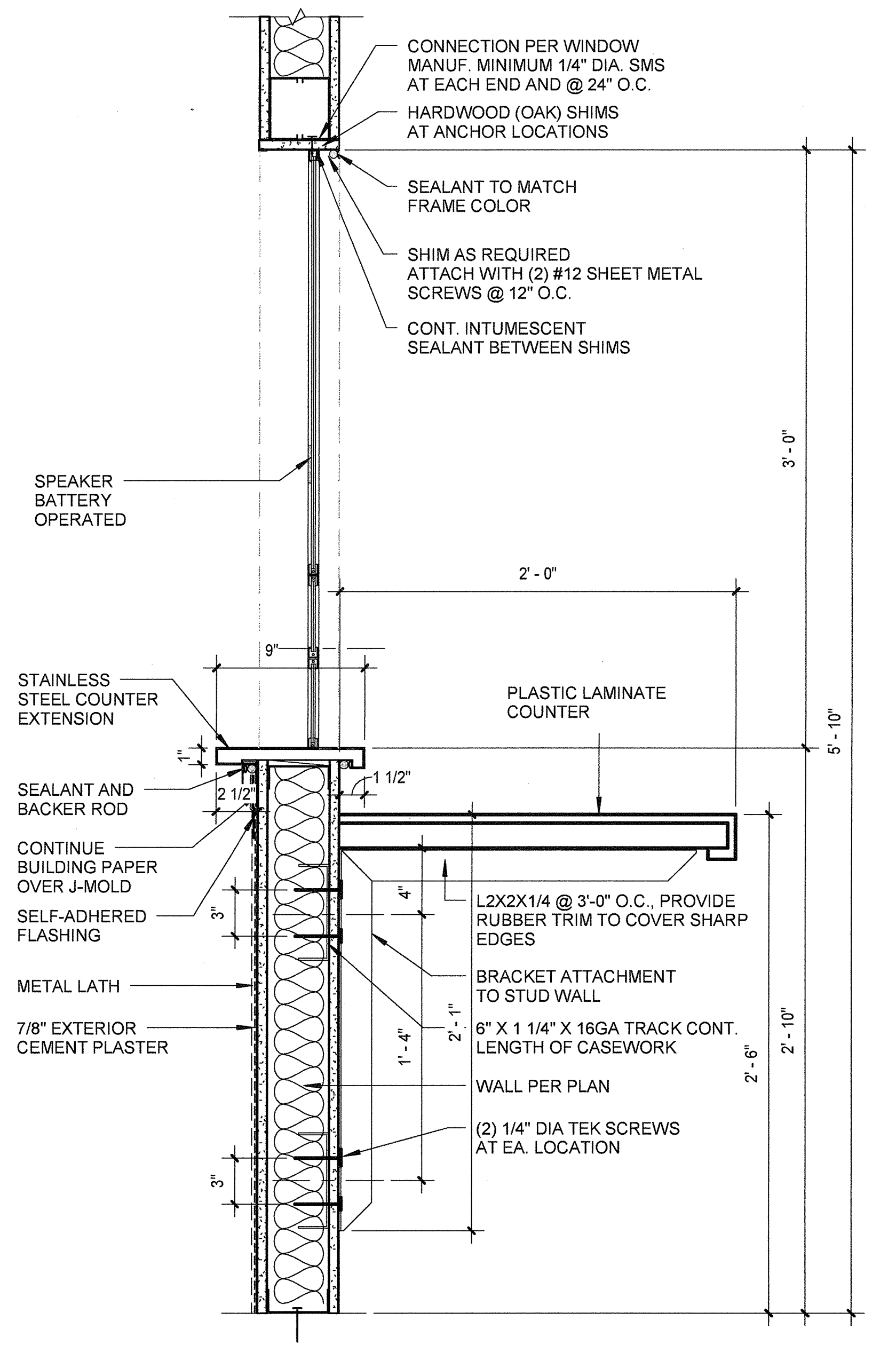
WINDOW SCHEDULE AND LEGEND


Noishield Acoustic LOUVER Model R 1-HR RATED
SEALANT
FASTNER AT PREDRILLED HOLE, FILLED WITH SEALANT
SEALANT
#10 SMS X 1 1/4" MIN. LONG ATTACHED TO STUD @ 16" O.C. HORIZONTAL, TYP
3" LONG Z CLIP AT EVERY SUPPORT
3"
SHIM AS NEEDED
METAL FLASHING W/ DRIP EDGE
FASTNER
SELF ADHERING FLASHING
3/16" X 3" X 48" CONTINOUS SHIM AT EACH STUD FASTENING POINT.3/16" GAP BETWEEN SHIMS FOR DRAINAGE
60 MIN. GRADE"D" BUILDING PAPER OVER TYVEK OVER 5/8" DENSGLASS

LOUVER SILL AT METAL PANEL 3" = 1'-0" **10**


METAL STUD WALL W/ CEMENT PLASTER
1/4" STEEL ANCHOR PL. AND 3/8" M.B. TOTAL (4) EQUALLY SPACED
4" SQ. HSS 4X4X1/4 FILLED W/ GROUT (PAINT PIPE TO MATCH GATE)
CONT. STL. CHANNEL FRAME
PERFORATED METAL W/ SUPPORT, CAP ALL ENDS
(2) 6" X 18 GA W/ 18 GA END TRACKS BOXED METAL POST
3/16"
4-HEAVY DUTY BUTT HINGES. WELD TO JAMB.

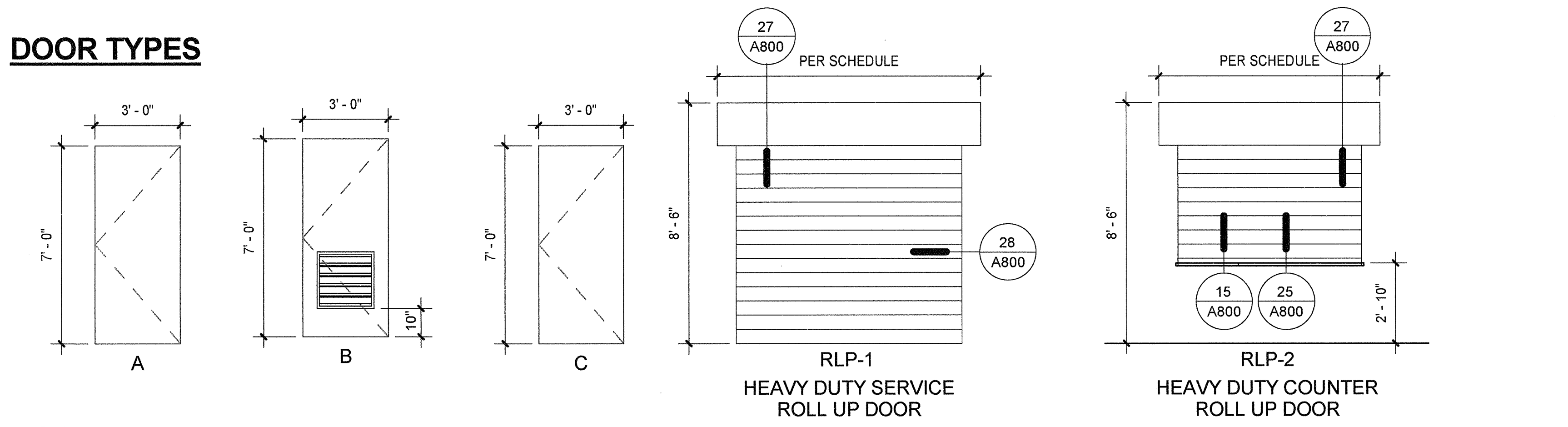
GATE JAMB AT STUD WALL 3/16" = 1'-0" **5**


CONNECTION PER WINDOW MANUF. MINIMUM 1/4" DIA. SMS AT EACH END AND @ 24" O.C.
HARDWOOD (OAK) SHIMS AT ANCHOR LOCATIONS
SEALANT TO MATCH FRAME COLOR
SHIM AS REQUIRED ATTACH WITH (2) #12 SHEET METAL SCREWS @ 12" O.C.
CONT. INTUMESCENT SEALANT BETWEEN SHIMS
SPEAKER BATTERY OPERATED
3' - 0"
2' - 0"
9"
STAINLESS STEEL COUNTER EXTENSION
PLASTIC LAMINATE COUNTER
5' - 10"
1"
SEALANT AND BACKER ROD
2 1/2"
1 1/2"
CONTINUE BUILDING PAPER OVER J-MOLD
SELF-ADHERED FLASHING
3"
4"
L2X2X1/4 @ 3'-0" O.C., PROVIDE RUBBER TRIM TO COVER SHARP EDGES
BRACKET ATTACHMENT TO STUD WALL
METAL LATH
7/8" EXTERIOR CEMENT PLASTER
1' - 4"
2' - 1"
6" X 1 1/4" X 16GA TRACK CONT. LENGTH OF CASEWORK
2' - 6"
2' - 10"
WALL PER PLAN
(2) 1/4" DIA TEK SCREWS AT EA. LOCATION
3"

EXT. TICKET BOOTH WINDOW 1 1/2" = 1'-0" **15**

Show All												
				DOOR		FRAME		DETAILS	HARDWARE			
wt	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	THRESHOLD	GROUP	PH	FIRE RATING	REMARKS
101	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	1			
102A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN SIGNAGE SEE DETAIL 5/_GEN-4
102B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN SIGNAGE SEE DETAIL 5/_GEN-4
103A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			WOMEN SIGNAGE SEE DETAIL 10/_GEN-4
103B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	7			WOMEN SIGNAGE SEE DETAIL 10/_GEN-4
104A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			
104B	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
105A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
105B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	4			
105C	4' - 6"	4' - 4"	RLP-2	AL	AN	AL	AN	-	09			
105D	4' - 6"	4' - 4"	RLP-2	AL	AN	AL	AN	-	09			
105E	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP		3			
106A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
106B	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
108	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
110	3' - 0"	7' - 0"	C	HM	FRA	KD	FRA	1/A800	5		60 MIN.	IRRIGATION PUMP ROOM SIGNAGE
201A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			WOMEN SIGNAGE SEE DETAIL 10/_GEN-4
201B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	7			WOMEN SIGNAGE SEE DETAIL 10/_GEN-4
202A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN SIGNAGE SEE DETAIL 5/_GEN-4
203A	7' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
203B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			
204	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	1			
205A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	08			
205B	5' - 6"	4' - 2"	RLP-1	AL	AN	AL	AN	-	09			
205C	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			
206A	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
206B	3' - 0 5/16"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			

DOOR TYPES



RLP-1
HEAVY DUTY SERVICE
ROLL UP DOOR

RLP-2
HEAVY DUTY COUNTER
ROLL UP DOOR

DOOR HARDWARE

Heading 1

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

STOREROOM FUNCTION ALLOWED PER INTERPRETATION 10-08 DSA/AC (REVISED)
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 2

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM LOCK	L9070L 06L	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 3

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 4

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

SEALS ARE SUPPLIED BY THE AL/GL STOREFRONT MANUFACTURER.

Heading 5

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 6

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 7

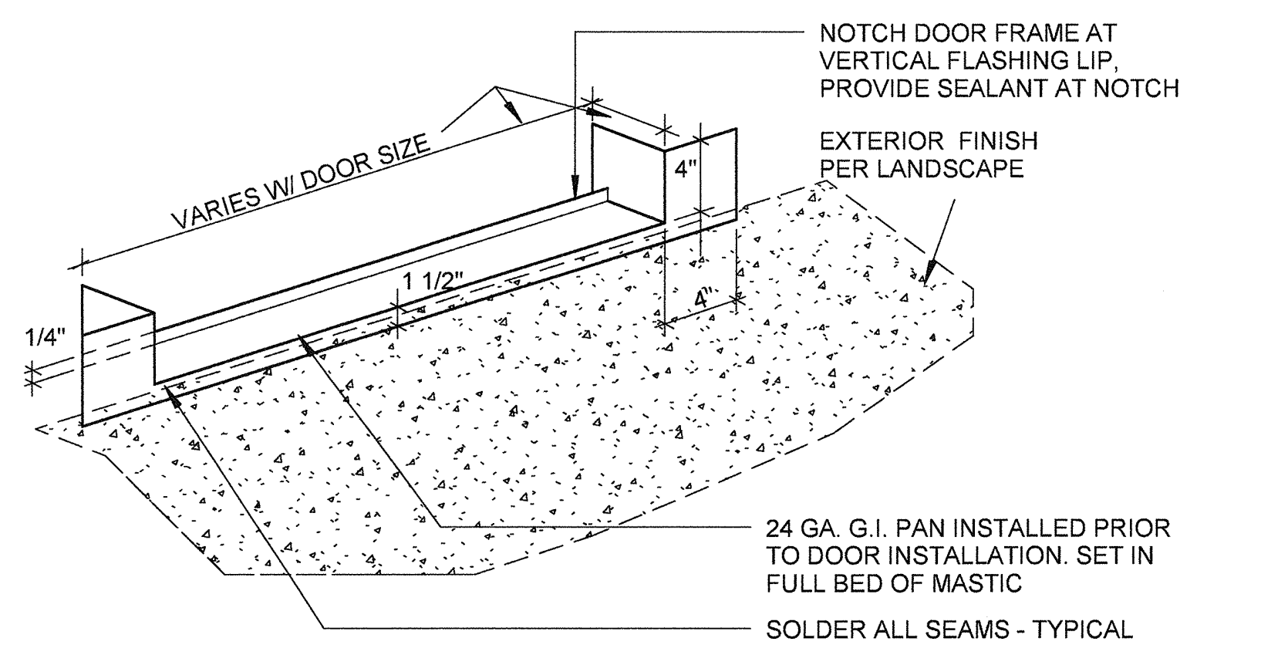
3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400 INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

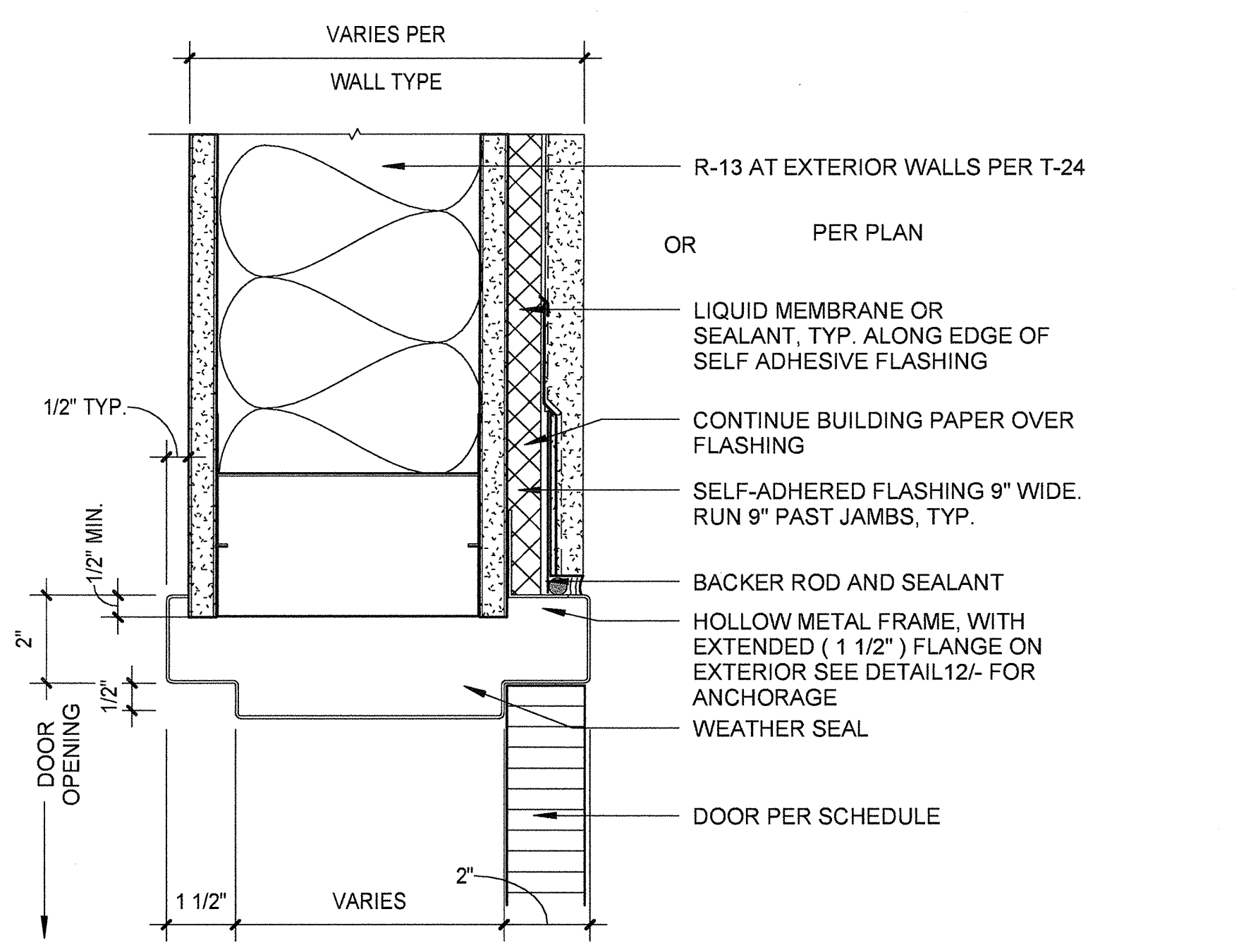
Heading 8

1	EA	PADLOCK L/CYL-SFIC	KS41D1200	606	SCH
1	EA	SFIC CORE	C607	626	FAL
1	EA	HARDWARE	BALANCE OF HARDWARE BY DOOR SUPPLIER		BYO

DOOR SCHEDULE AND LEGEND


NOTCH DOOR FRAME AT VERTICAL FLASHING LIP, PROVIDE SEALANT AT NOTCH
VARIES W/ DOOR SIZE
EXTERIOR FINISH PER LANDSCAPE
4"
1 1/2"
4"
1/4"
24 GA. G.I. PAN INSTALLED PRIOR TO DOOR INSTALLATION. SET IN FULL BED OF MASTIC
SOLDER ALL SEAMS - TYPICAL

EXT. DOOR THRESHOLD FLASHING 3" = 1'-0" **8**


VARIES PER
WALL TYPE
R-13 AT EXTERIOR WALLS PER T-24
OR
PER PLAN
LIQUID MEMBRANE OR SEALANT, TYP. ALONG EDGE OF SELF ADHESIVE FLASHING
1/2" TYP.
CONTINUE BUILDING PAPER OVER FLASHING
SELF-ADHERED FLASHING 9" WIDE. RUN 9" PAST JAMBS, TYP.
1/2" MIN.
BACKER ROD AND SEALANT
2"
HOLLOW METAL FRAME, WITH EXTENDED (1 1/2") FLANGE ON EXTERIOR SEE DETAIL12/- FOR ANCHORAGE
1/2"
DOOR OPENING
WEATHER SEAL
DOOR PER SCHEDULE
2"
1 1/2"
VARIES

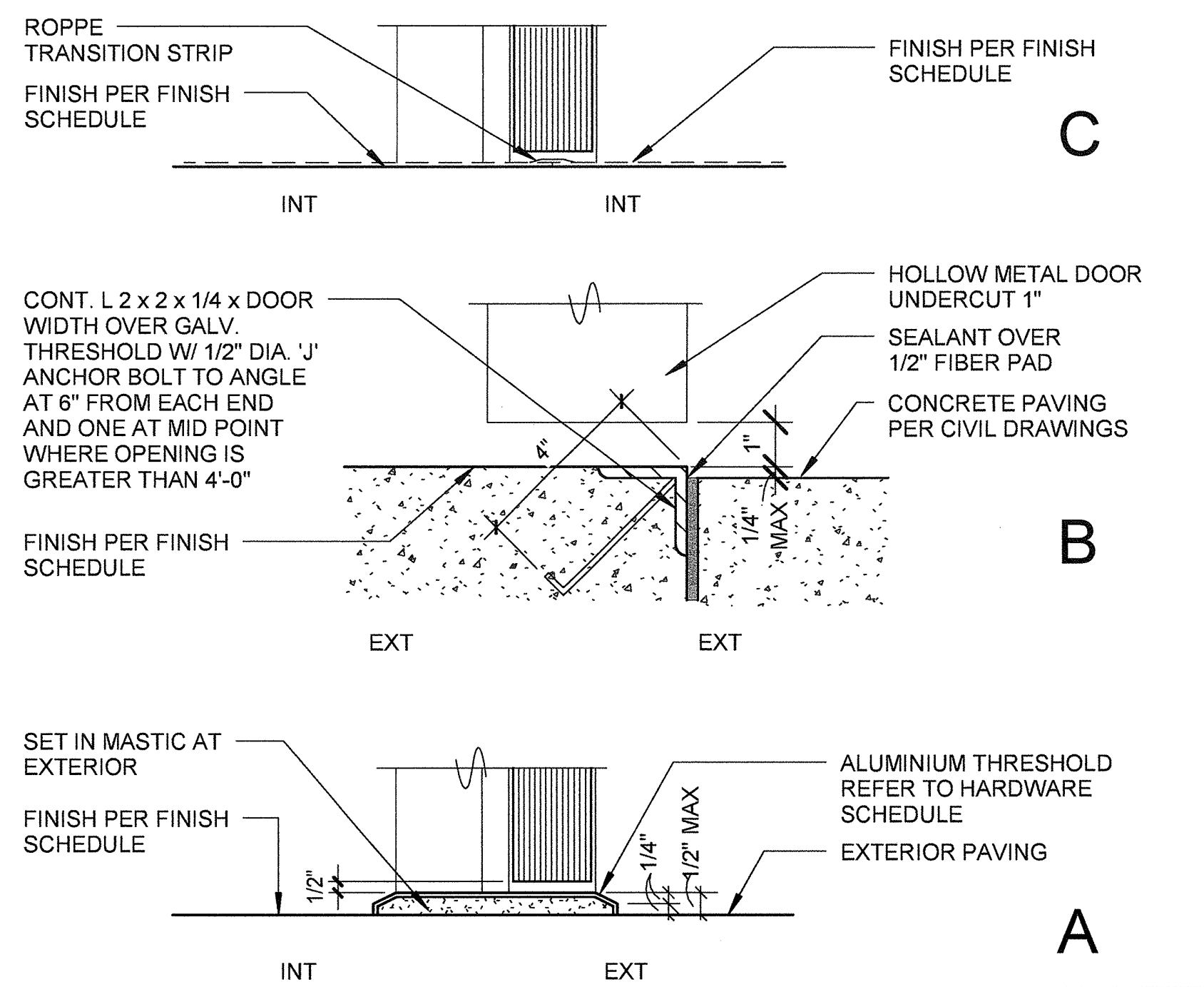
DOOR JAMB @ EXT. 3" = 1'-0" **7**

AL	-	ALUMINUM	LVR	-	LOUVER
AN	-	ANODIZED CLEAR	LG	-	LAMINATED GLASS
BZ	-	ANODIZED BRONZE	MF	-	MILL FINISH
CC	-	CONCEALED CLOSER	MR	-	MIRRORED GLASS
CLR	-	CLEAR	MAG	-	MAGNETIC HOLD OPEN
FC	-	FLOOR CLOSER	PR	-	PAIR
FF	-	FACTORY FINISH	SCW	-	SOLID CORE WOOD
FLFD	-	FUSIBLE LINK FIRE DAMPER	SMC	-	SURFACE MOUNTED CLOSER
FP	-	FIELD PAINT	ST	-	STEEL
FPFP	-	FACTORY PRIMED, FIELD PAINTED	SS	-	STAINLESS STEEL
FRA	-	FIRE RATED ASSEMBLY	T	-	TEMPERED
FS	-	FIELD STAINED	WG	-	1/4" WIRE GLASS
GA	-	GALVANIZED	KD	-	KNOCK DOWN FRAME
GL	-	GLASS OR GLAZING	FPFP	-	FACTORY PRIMED, FIELD PAINTED
GS	-	GALVANIZED STEEL	FRA	-	FIRE RATED ASSEMBLY
IG	-	SEALED INSULATING GLASS PER SPEC	FS	-	FIELD STAINED
HM	-	HOLLOW METAL	GA	-	GALVANIZED
HMW	-	HOLLOW METAL FRAME - WELDED	GL	-	GLASS OR GLAZING
HMK	-	HOLLOW METAL FRAME - KNOCK DOWN	GS	-	GALVANIZED STEEL
			IG	-	SEALED INSULATING GLASS PER SPEC

GLAZING GENERAL NOTES:

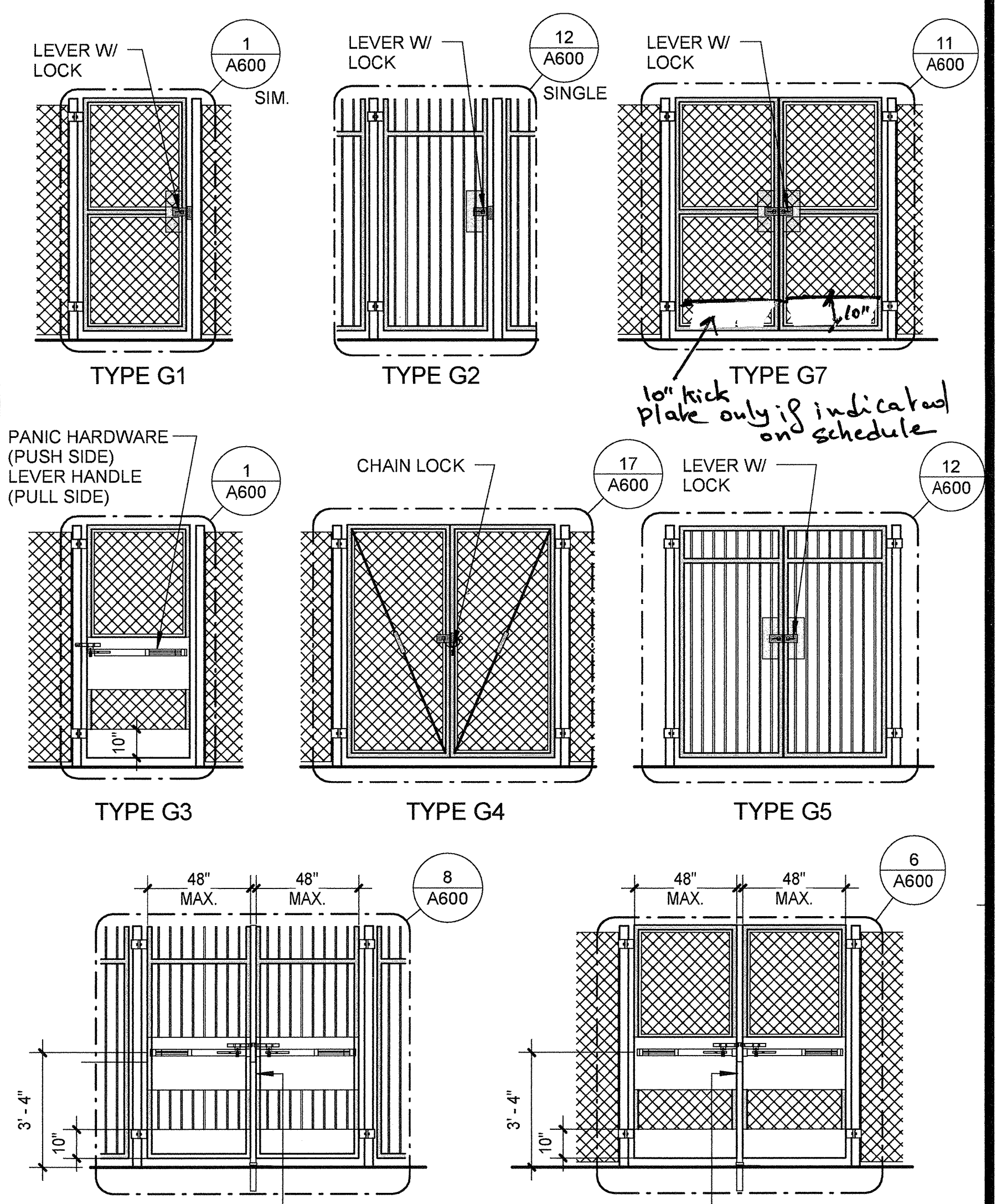
ALL SAFETY GLAZING WHERE OCCURS SHALL COMPLY WITH 2013 CBC SECTION 2406 -
1. HAZARDOUS LOCATIONS ARE DEFINED PER CBC SECTION 2406.4.
2. HUMAN IMPACT LOADS ARE DEINFED PER CBC SECTION 2406.1.
3. ALL GLAZING SHALL MEET REQUIREMENTS OF CBC SECTION 2406.1.1 THROUGH 2406.1.4 AND BE IDENTIFED PER SECTION 2406.3.

CODES TO SCHEDULES AND ABBREVIATIONS


ROPPE TRANSITION STRIP
FINISH PER FINISH SCHEDULE
FINISH PER FINISH SCHEDULE
C
INT
INT
CONT. L 2 x 2 x 1/4 x DOOR WIDTH OVER GALV. THRESHOLD W/ 1/2" DIA. 'J' ANCHOR BOLT TO ANGLE AT 6" FROM EACH END AND ONE AT MID POINT WHERE OPENING IS GREATER THAN 4'-0"
HOLLOW METAL DOOR UNDERCUT 1"
SEALANT OVER 1/2" FIBER PAD
CONCRETE PAVING PER CIVIL DRAWINGS
4"
1"
1/4" MAX
FINISH PER FINISH SCHEDULE
B
EXT
EXT
SET IN MASTIC AT EXTERIOR
FINISH PER FINISH SCHEDULE
ALUMINIUM THRESHOLD REFER TO HARDWARE SCHEDULE
EXTERIOR PAVING
1/2"
1/4"
1/2" MAX
A
INT
EXT

THRESHOLD DETAILS 3" = 1'-0" **1**

NEW GATE SCHEDULE						
	DIMENSION		GATE			
wt	WIDTH	HEIGHT	SET#	TYPE	Panic Hardware	Remarks
VEHICLE GATES:						
VG01	10' - 0"	8' - 0"	13	G4	-	
VG02	10' - 0"	8' - 0"	13	G4	-	
VG03	10' - 0"	8' - 0"	13	G4	-	
VG04	10' - 0"	8' - 0"	13	G4	-	
VG05	10' - 0"	8' - 0"	13	G4	-	
VG06	10' - 0"	8' - 0"	13	G~~4~~7	-	10" Kick plate
VG07	10' - 0"	8' - 0"	13	G~~4~~7	-	10" Kick plate
VG08	8' - 0"	8' - 0"	13	G4	-	
VG09	8' - 0"	8' - 0"	13	G4	-	
VG10	10' - 0"	8' - 0"	13	G4	-	
VG11	10' - 0"	8' - 0"	13	G4	-	
PEDESTRIAN GATES:						
PG11	6' - 7"	9' - 0"	09	G5	NO	
PG12	6' - 7"	9' - 0"	09	G5	NO	
PG13	7' - 3"	8' - 0"	10	G7	NO	
PG14	7' - 3"	8' - 0"	10	G7	NO	
PG15	8' - 0"	6' - 0"	09	G8	YES	
PG16	8' - 0"	6' - 0"	09	G8	YES	
PG17	3' - 0"	8' - 0"	11	G3	YES	
PG18	3' - 0"	8' - 0"	11	G3	YES	
PG19	3' - 0"	8' - 0"	11	G3	YES	
PG20	3' - 0"	8' - 0"	12	G1	NO	MAINTENANCE
PG21	3' - 0"	8' - 0"	12	G1	NO	MAINTENANCE
PG22	3' - 0"	8' - 0"	12	G1	NO	MAINTENANCE
PG23	3' - 0"	8' - 0"	12	G1	NO	MAINTENANCE
PG24	3' - 0"	8' - 0"	12	G1	NO	MAINTENANCE
PG25	3' - 8"	8' - 0"	12	G2	NO	MAINTENANCE
PG26	7' - 0"	8' - 0"	09	G6	YES	
PG27	7' - 0"	8' - 0"	09	G6	YES	
PG28	6' - 0"	6' - 0"	09	G8	YES	
PG29	6' - 0"	6' - 0"	09	G8	YES	
PG3a PG3b	3' - 0"	6' - 0"	12	G1	NO	MAINTENANCE
PG4a PG4b	3' - 0"	6' - 0"	12	G1	NO	MAINTENANCE



ADJUSTABLE 48" MAX. WIDTH PANIC BAR w/ MORTISE LOCK & STRIKE PLATE (PUSH SIDE) AND LEVER HANDLE ON OUTSIDE (PULL SIDE) OF GATE PER APPROVED DISTRICT STANDARD WHEN LOCATED ALONG ACCESSIBLE PATH OF TRAVEL. INSTALL PER MANUF. REC. WITH 3/16" STEEL PANEL

TYPE G6

ADJUSTABLE 48" MAX. WIDTH PANIC BAR w/ MORTISE LOCK & STRIKE PLATE (PUSH SIDE) AND LEVER HANDLE ON OUTSIDE (PULL SIDE) OF GATE PER APPROVED DISTRICT STANDARD WHEN LOCATED ALONG ACCESSIBLE PATH OF TRAVEL. INSTALL PER MANUF. REC. WITH 3/16" STEEL PANEL

TYPE G8

GATE HARDWARE

Hardware Group No. 09

Qty		Description	Catalog Number	Finish	Mfr
2	EA	GATE BOX	K-BX-EDVN99L2 -TYPE REQUIRED	GAL	KEE
1	EA	REMOVABLE MULLION	GATE MULLION BY GATE FABRICATOR	GAL	BYO
2	EA	PANIC HARDWARE	PA-AX-98-L-2SI-06 SS-630-WH	630/US28	VON
4	EA	SFIC CYLINDER	C953-7	626	FAL
4	EA	SFIC CONST. CORE	C607CCA		FAL
4	EA	SFIC CORE	C607	626	FAL
2	SET	GATE CLOSER	POSITIVE FORCE ADA GATE CLOSER	689	PFG
1	SET	HARDWARE	BALANCE OF HARDW'R BY GATE FABRICATOR		BYO

GATE TYPES G-5, G-6 & G-8)
(MOUNT @ SLIGHT ANGLE SO WATER DRAINS TOWARD END CAP- APPLY SEALANT AROUND CENTER CASE, END CASE AND TRIM.

Hardware Group No. 10

2	EA	GATE BOX	K-BXMOR TYPE REQUIRED	GAL	KEE
4	EA	HI CAPACITY HINGE	I-8513 WELD ON OR SCREW ON	GAL	BRK
1	EA	CANE BOLT	0524.00021 18"	GAL	RIC
2	EA	LOCKABLE PADLOCK ASS	0524PL	GAL	RIC
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
1	EA	PADLOCK L/CYL-SFIC	KS41D1200	606	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	SET	HARDWARE	BALANCE OF HARDWARE BY GATE FABRICATOR		BYO

(GATE TYPE G-7)
(APPLY SEALANT AROUND ARMOR FRONT AND TRIM)

Hardware Group No. 11

1	EA	GATE BOX	K-BX-EDVN99L2 -TYPE REQUIRED	GAL	KEE
1	EA	PANIC HARDWARE	PA-AX-98-L-2SI-06 SS-630-WH	630/US28	VON
2	EA	SFIC CYLINDER	C953-7	626	FAL
2	EA	SFIC CONST. CORE	C607CCA		FAL
2	EA	SFIC CORE	C607	626	FAL
1	SET	GATE CLOSER	POSITIVE FORCE ADA GATE CLOSER	689	PFG

(GATE TYPE G-3)
(MOUNT @ SLIGHT ANGLE SO WATER DRAINS TOWARD END CAP- APPLY SEALANT AROUND CENTER CASE, END CASE AND TRIM)

Hardware Group No. 12

1	EA	GATE BOX	K-BXMOR TYPE REQUIRED	GAL	KEE
3	EA	HI CAPACITY HINGE	I-8513 WELD ON OR SCREW ON	GAL	BRK
1	EA	STOREROOM LOCK	L9080L 06A	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SFIC CORE	C607	626	FAL

(ADA POSITIVE FORCE GATE CLOSER CLOSES AND HANGS GATE)
(APPLY SEALANT AROUND ARMOR FRONT AND TRIM)
STOREROOM FUNCTION ALLOWED PER INTERPRETATION 10-08 DSA/AC (REVISED)

Hardware Group No. 13

1	EA	PADLOCK L/CYL-SFIC	KS41D1200	606	SCH
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	SET	HARDWARE	BALANCE OF HARDWARE BY GATE FABRICATOR		BYO

GATE SCHEDULE

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

ROBERT M. SIMONS
No. C-18301
JAN. 31, 2019

Robert M. Simons

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC N.N. FLS SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: As indicated

SHEET NUMBER: A800
SHEET TITLE:

SCHEDULES

SVA ARCHITECTS

3 MacArthur Place, Suite 850 Santa Ana, CA 92707
T (949) 809-3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

ABBREVIATION

AB	ANCHOR BOLT
ABV	ABOVE
ADD'L	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECT,ARCHITECTURAL
BTWN	BETWEEN
BLW	BELOW
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BOTT	BOTTOM
BS	BOTH SIDES
BSMT	BASEMENT
CLR	CLEAR
CLG	CEILING
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CF	CUBIC FOOT
CJ	CONST JOINT
CVR	COVER
DIA	DIAMETER
DIR	DIRECTION
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEC	ELECTRICAL
EL	ELEVATION
ENGR	ENGINEER
EXP JT	EXPANSION JOINT
EQ	EQUAL
ES	EDGE SCREW
EXT	EXTERIOR
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOOR
FS	FAR SIDE
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FT	FOOT, FEET
FOOTING	FTG
GA	GAGE
GALV	GALVANIZED
GND	GROUND
GR	GRADE
HB	HEADED BOLT
HT	HEIGHT
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
INFO	INFORMATION
INT	INTERIOR
KP	KING POST
KSI	KIPS PER SQ INCH
LBS	POUNDS
LG	LONG
LONG	LONGITUDINAL
LT WT	LIGHT WEIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MD	METAL DECK
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NS	NEAR SIDE
NW	NORMAL WEIGHT
OC	ON CENTER
OPP	OPPOSITE
PSF	POUNDS PER SQ FOOT
PSI	POUNDS PER SQ INCH
REINF	REINFORCEMENT
REQ	REQUIRED
SCHED	SCHEDULE
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
THK	THICK
T&B	TOP & BOTTOM
TOF	TOP OF FOOTING
TL	TOP OF LEDGER
TOS	TOP OF STEEL, TOP OF SHEATHING
TRANSV	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WF	WIDE FLANGE BEAM
W/	WITH
W/O	WITHOUT
WP	WATERPROOFING
WWF	WELDED WIRE FABRIC
WT	WEIGHT
WP	WORKING POINT
WS	WELDED STUD

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40 FOR#3 AND SMALL AND GRADE 60 FOR #4 AND LARGER. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.

2. WELDED WIRE FABRIC (WWF) SHALL COMPLY WITH ASTM 185, AND SHALL BE LAPPED 1-1/2 SPACES (12"MM).

3. ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, ETC. SHALL BE WELL SECURED IN PLACE PRIOR TO PLACING CONCRETE.

4. ALL REINFORCING STEEL SHALL BE LAPPED AS SPECIFIED ON THE DETAIL. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWING, ALL REINFORCING STEEL SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWING UNLESS NOTED OTHERWISE, TERMINATED CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.

5. DOWELS SHALL BE PROVIDED AT POUR AND CONSTRUCTION JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCING SHOWN FOR THE SUBSEQUENT CONSTRUCTION.

6. REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVERS, U.N.O.

   CONCRETE AGAINST EARTH (NOT FORMED) ———————3"
   CONCRETE AGAINST EARTH (FORMED AND TROWELED) ——— 2"
   WALL AND CURB ————————————————1-1/2"
   SLAB ON GRADE ————————————————CENTER

7. WELDING OR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4. ALL BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.

8. SUBMIT REINFORCING STEEL SHOP DRAWING TO ARCHITECT FOR APPROVAL.

METAL STUDS

1. METAL STUDS SHALL CONFORM TO ASTM A653 AND A1011 THE FOLLOWING MINIMUM YIELD STRENGTH.
   - ALL METAL STUDS 54 MILS AND THICKER (50 KSI)
   - OTHER STUDS (33 KSI)

2. ALL METAL STUDS SHALL BE MANUFACTURED BY ANY CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). ICC ESR-4943P.

3. NON LOAD BEARING METAL STUDS ARE NOT SHOWN OR INDICATED ON STRUCTURAL DRAWING. FOR INFORMATION ON NON - LOAD BEARING METAL STUDS, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

4. TRACK SHALL BE MINIMUM 54 MILS UNPUNCHED, U.N.O. AND INSURE PROPER FIT OF VERTICAL STUDS.

5. ALL LIGHT GAUGE METAL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING FLUX CORE OR GAS METAL ARC WELDING (FCAW OR GMAW) PROCESSES IN ACCORDANCE WITH AWS D1.3 (SHEET METAL)

6. ALL EXTERIOR STUDS TO HAVE A MINIMUM FLANGE WIDTH OF 1-5/8" U.N.O.

7. FASTENERS
   A. SCREWS: SCREW SPACING AND EDGE DISTANCE SHALL NOT BE LESS THAN 3XD (D = NOMINAR SCREW DIAMETER) PENETRATION OF SCREWS THROUGH JOINT MATERIALS SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREW SHOULD BE TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURERS RECOMMENDATION.
   B. WELD: FOR MATERIAL LESS THAN OR EQUAL TO 0.1242" THICK, THE EFFECTIVE THROAT OF THE WELD SHALL NOT BE LESS THAN THE THICKNESS OF THE THINNEST MEMBER.

8. FLANGES SHALL BE BRACED BY ONE OF THE FOLLOWING METHODS OR OBTAINING THE EQUIVALENT OF CONTINUOUS LATERAL SUPPORT OF STUDS AND JOIST.

FACING MATERIALS	FASTENING
LATH APPROVED FOR PLASTER	NO 8 X 3/8" HEAD. SHEET METAL SCREWS SPACED PER CBC TABLE NO 25A-C AND MINIMUM PENETRATION OF 1/4"
SINGLE - PLY GYPSUM WALLBOARD VENEER BASE LATH AND GYPSUM LATH	AS PER CBC TABLE NO. 25A-G
TWO PLY GYPSUM WALL BOARD PLYWOOD SHEATHING	AS PER CBC TABLE NO 25A - H. NO 6 PHILLIPS BUGLE HEAD SCREWS SPACED AS PER CBC TABLE 25A - G AND WITH A MINIMUM PENETRATION OF 1/4"
ALTERNATE METHOD OF WEB STIFFENING	MANUFACTURERS ICC REPORT

REINFORCED CONCRETE (CAST-IN-PLACE)

1. STRUCTURAL CONCRETE AND CONCRETE PRACTICES SHALL CONFORM TO ACI 318 CURRENT EDITION AS WELL AS ALL APPLICABLE CODES STATED IN GENERAL NOTE.

2. ALL CONCRETE DETAILS SHALL BE IN ACCORDANCE WITH ACI-135 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", UNLESS NOTED OTHERWISE.

3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS. ALL CONCRETE TO BE NORMAL WT CONCRETE U.N.O.

	STRENGTH (PSI)	CEMENT TYPE	W/C	WT	MAX-AGG:
FOUNDATIONS	3000	II	0.50	145	1"
ALL OTHER CONCRETE U.N.O.	3000	II	0.50	145	3/4"

4. ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP NO GREATER THAN 4" EXCEPT FOR FOUNDATIONS WHICH MAY HAVE 5" MAX SLUMP.

5. MIX DESIGNS SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO USE.

6. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

FOUNDATION

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PREPARED BY:

   HARRINGTON GEOTECHNICAL
   JOB NUMBER 09-EM-0017 DATED FEBRUARY 23, 2015

2. ALLOWABLE DESIGN VALUE

BEARING PRESSURE:	2500 PSF WITH 1/3 INCREASE FOR WIND & SEISMIC LOADING
PASSIVE PRESSURE:	300 PSF PER FOOT OF EMBEDMENT
FRICTION:	0.40

3. FOOTING SHALL REST ON COMPACTED SOIL, SEE GEOTECHNICAL REPORT FOR OVEREXCAVATION AND RECOMPACTION REQUIREMENTS.

4. NO BACKFILL SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALL UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL.

5. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.

6. METHOD EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL CIVIL ENGINEER.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A6 AND SHALL BE FABRICATED ACCORDING TO AISC PRACTICE AND SPECIFICATION FOR BUILDING.

2. MATERIALS: PROVIDE STRUCTURAL STEEL COMPLYING WITH UBC STANDARD AND ASTM STANDARD AS FOLLOWS, U.N.O.

A.	ALL WIDE FLANGES	ASTM A992, GRADE 50
B.	TUBES (HSS ROUNDS, HSS TUBES)	ASTM A500, GRADE B (46ksi)
C.	PIPES	ASTM A53, GRADE B (35ksi)
D.	CHANNELS, ANGLES, PLATES	ASTM A36 (U.O.N.)
E.	BASE PLATE AT MOMENT AND BRACE FRAMES	ASTM 572, GRADE 50
F.	ANCHOR BOLTS AT FRAMES	ASTM F1554, GRADE 36
G.	ANCHOR BOLTS AT NON-FRAMES	ASTM A307 ASTM A449
H.	THREADED ROD	ASTM A36

3. BOLTS
   A. USE ASTM A490 HIGH STRENGTH BOLTS, NUTS AND WASHERS UNLESS NOTED OTHERWISE. USE BEARING TYPE (A325-N) TYPICAL U.N.O. USE SLIP CRITICAL (A490-SC) FOR CONCENTRIC BRACED FRAME (BEAM TO COLUMN CONNECTION) U.N.O.
   B. PROVIDE SNUG TIGHT FOR A490X U.N.O. USE TWIST - OFF TENSION CONTROL METHOD, CALIBRATED WRENCH OR DIRECT TENSION INDICATOR METHOD FOR A490 SC.
   C. STANDARD BOLT HOLE SHALL BE 1/16" LARGER IN DIAMETER THAN NORMAL BOLT DIAMETER, U.N.O.
   D. OVERSIZE BOLTS HOLES FOR ANCHOR BOLTS IN BASE PLATE MAY BE ALLOWED BY PROVIDING 3-1/2" SQUARE x 1/2" THK PLATE WASHERS UNDER NUT U.N.O. THICKNESS OF PLATE WASHER SHALL BE 0.5 TIMES THE DIAMETER OF ANCHOR BOLTS U.N.O. USE 5/16 INCH FILLET WELD AROUND PLATE WASHER U.N.O.

4. WELDING
   A. ALL WELDS SHALL BE DONE USING THE SHIELDED ELECTRIC ARC PROCESS BY AWS CERTIFIED WELDERS USING AWS D1.1 LOW - HYDROGEN E70XX ELECTRODES.
   B. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE SYSTEMS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CHARPY V - NOTCH TOUGHNESS OF 20FT-LBS AT MINUS 20 DEGREES F. AS DETERMINED BY AWS CLASSIFICATION.
   C. CONTINUOUS INSPECTION IS REQUIRED FOR ALL FIELD AND SHOP WELDING BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY GOVERNING CODE - AUTHORITY (DSA FOR PUBLIC SCHOOLS)
   D. WELDERS SHALL BE QUALIFIED AND CERTIFIED BY THE GOVERNING CODE AUTHORITY. (DSA FOR PUBLIC SCHOOLS)

5. STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED U.N.O. (SEE ARCHITECTURAL DRAWINGS FOR OTHER CONDITION)

6. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

GENERAL

1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE AND ALL LOCAL CODES.

2. STRUCTURAL DRAWINGS ARE PARTS OF CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS, AND SHALL NOTIFY THE ARCHITECT AND ENGINEERS OF ANY DISCREPANCIES.

3. STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL PROVIDE MEANS AND METHODS AS REQUIRED. PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY STRUCTURES AND PARTIALLY COMPLETED PORTIONS OF WORKS COMPLYING WITH NATIONAL, STATE AND ALL LOCAL SAFETY ORDINANCES.

4. TYPICAL DETAILS AND SCHEDULES MAY NOT BE REFERENCED ON DRAWINGS. CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ALL TYPICAL DETAILS AND SCHEDULES PRIOR TO PROCEED WITH WORK.

5. CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.

6. THE CONTRACTOR SHALL NOT DEVIATE FROM THE TENDERED DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEERS.

7. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. FOR ALL LOCATIONS OF DATUM ELEVATION 0.0; REFER TO ARCHITECTURAL AND SITE DRAWINGS. ALL ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE MEASURED WITH RESPECT TO THIS DATUM, UNLESS NOTED OTHERWISE.

DESIGN LOADS

1. WIND DESIGN LOADS
   BASIC WIND SPEED..115 MPH
   EXPOSURE.. C
   WIND LOAD (LRFD).. 41.1PSF

2. SEISMIC DESIGN LOADS
   OCCUPANCY CATEGORY..III
   SITE CLASS..D
   SEISMIC DESIGN CATEGORY..................................D
   IMPORTANCE FACTOR...1.25
   $S_S = 2.404$ Fa=1.00
   $S_1 = 0.8331$ Fv=1.50
   $S_{DS} = 1.603$
   $S_{D1} = 0.833$
   LATITUDE = 34.0717; LONGITUDE = -118.03059

BLDG	ANALYSIS PROCEDURE
ALL	STATIC

PUMP HOUSE

DIRECTION	SEISMIC FORCE RESISTING SYSTEM	R	rho	Cd	OMEGA	Cs	BASE SHEAR
BOTH	CANTILEVER COLUMN	1.5	1.0	1.5	1.25	1.068	1.06k

Fp= 0.601W FOR ENTRY WALL

BASIS IS FOR STRENGTH DESIGN

OWNER:EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

No. 2998
Exp. 6-30-18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC ✓ FLS ED SS
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 14-046.01
SCALE: AS NOTED

SHEET NUMBER: **S0.1**
SHEET TITLE:

GENERAL NOTES

WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
PH: 714-352-6297
J.N.: 14-046.01

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

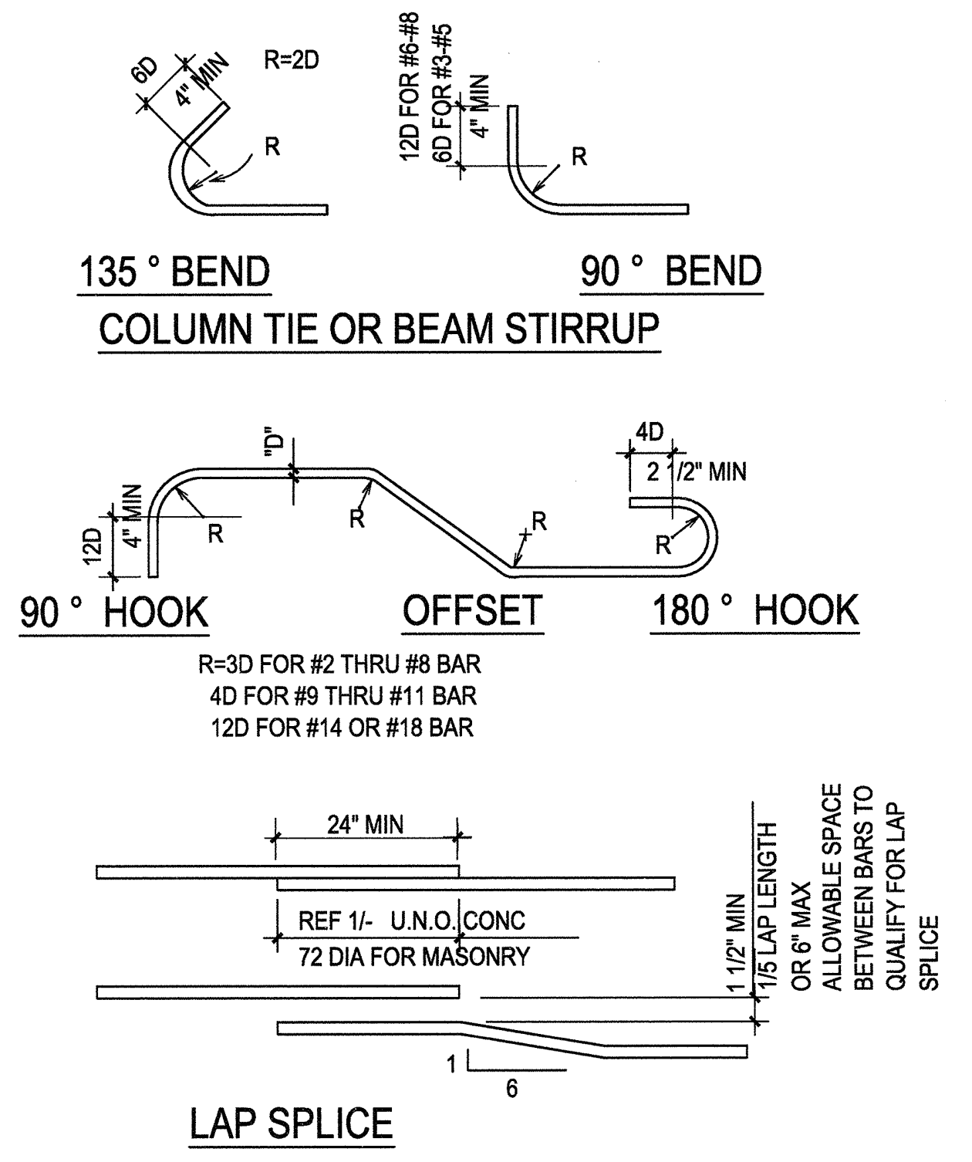
SCHEDULE

CLASS A SPLICE (DEVELOPMENT) LENGTHS									
CONCRETE	BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
fc=3000	TOP BAR	28	36	43	62	71	80	90	100
HARD ROCK	OTHER BAR	22	27	33	48	55	62	70	77

CLASS B SPLICE LENGTHS									
CONCRETE	BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
fc=3000	TOP BAR	37	46	56	81	93	104	118	131
HARD ROCK	OTHER BAR	28	36	43	62	71	80	90	100

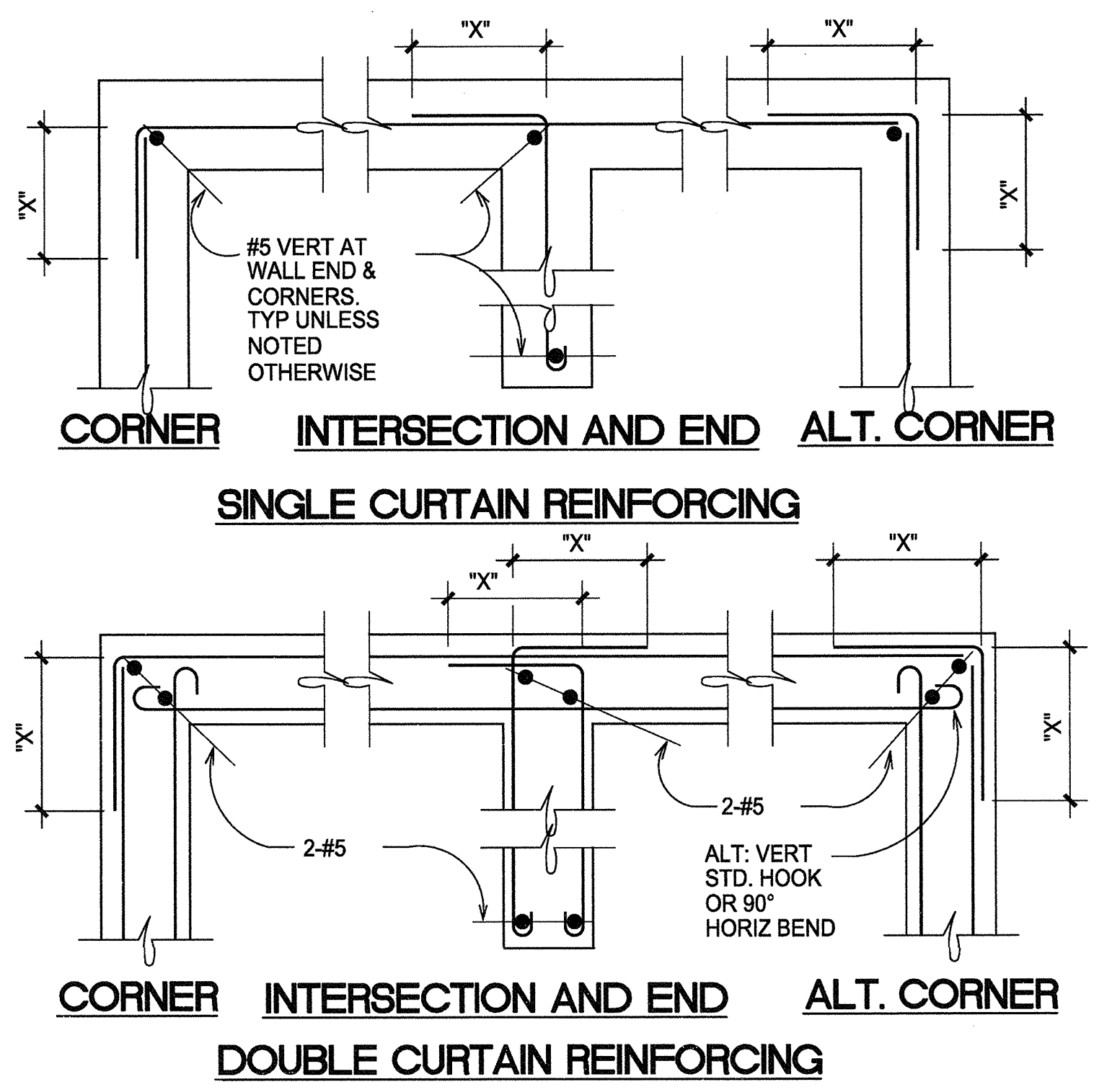
NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THEM.
2. WALL BARS ARE NOT CONSIDERED TOP BARS.
3. USE CLASS B SPLICES TYPICALLY U.N.O.
4. ALL LENGTHS ARE IN INCHES.
5. REF. ACI318 CHAPTER 12 SECTIONS 12.2 & 12.15.

① REINFORCING BAR SPLICE SCHEDULE



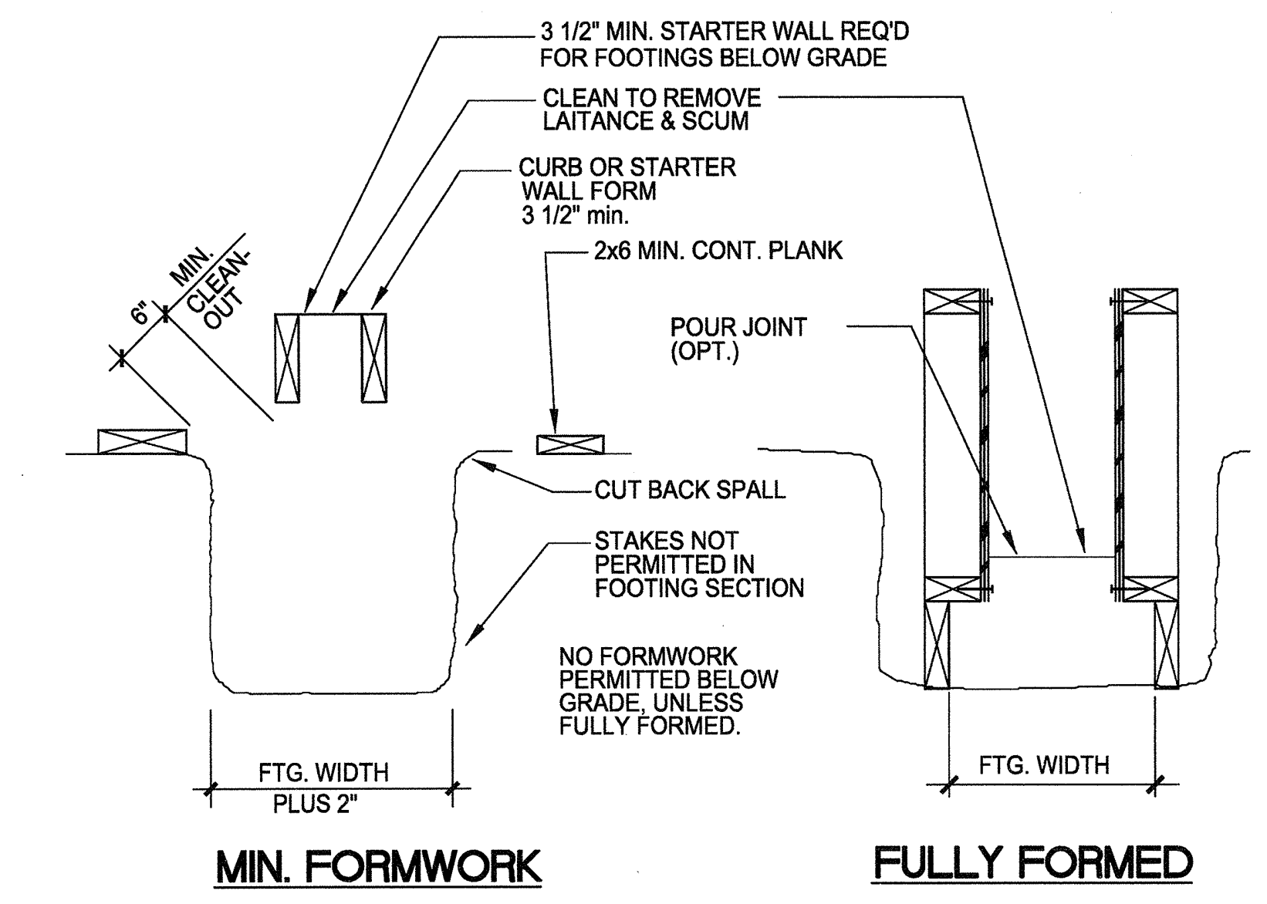
R=3D FOR #2 THRU #8 BAR
4D FOR #9 THRU #11 BAR
12D FOR #14 OR #18 BAR

③ REINFORCING STEEL DETAIL



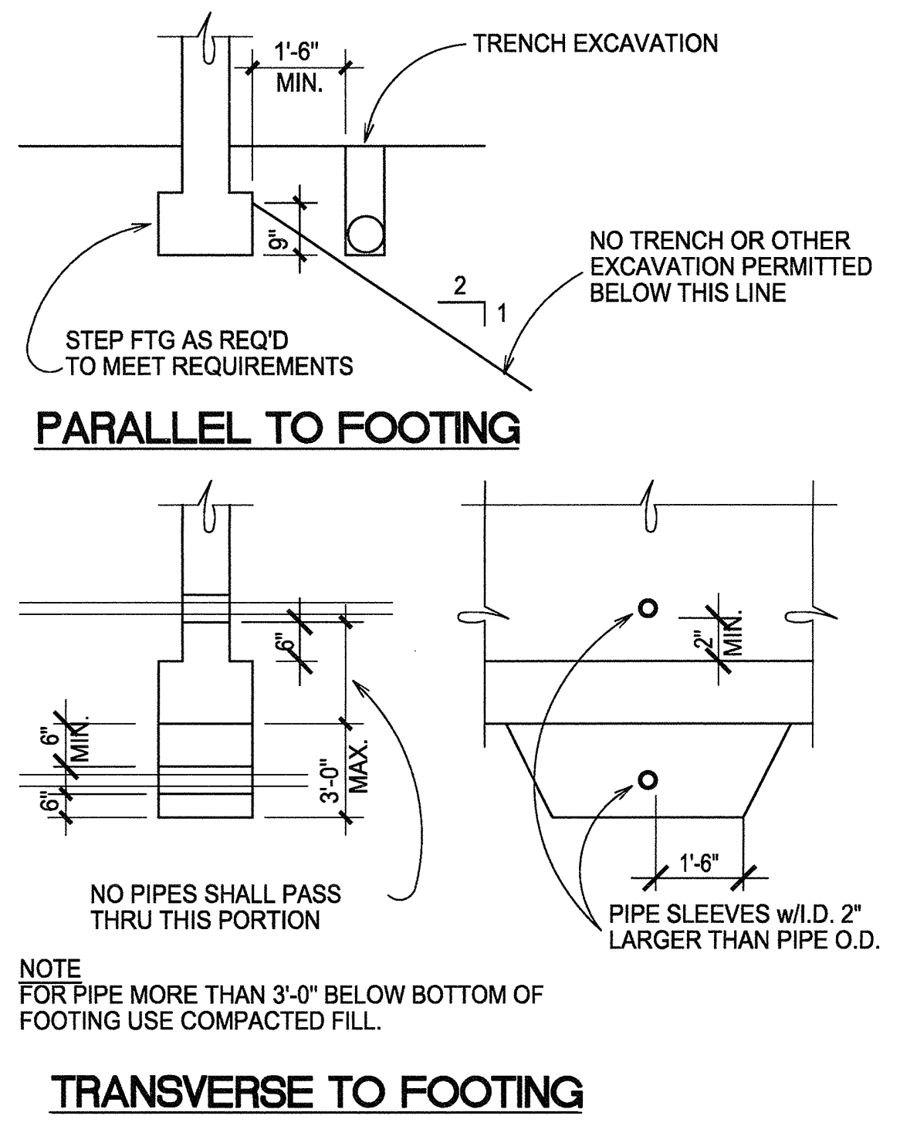
NOTE: "X" = 36 DIA AT CONC UNLESS NOTED
"X" = 48 DIA AT MASONRY UNLESS NOTED

④ REINF @ WALL AND GRD BEAM INTERSECTION



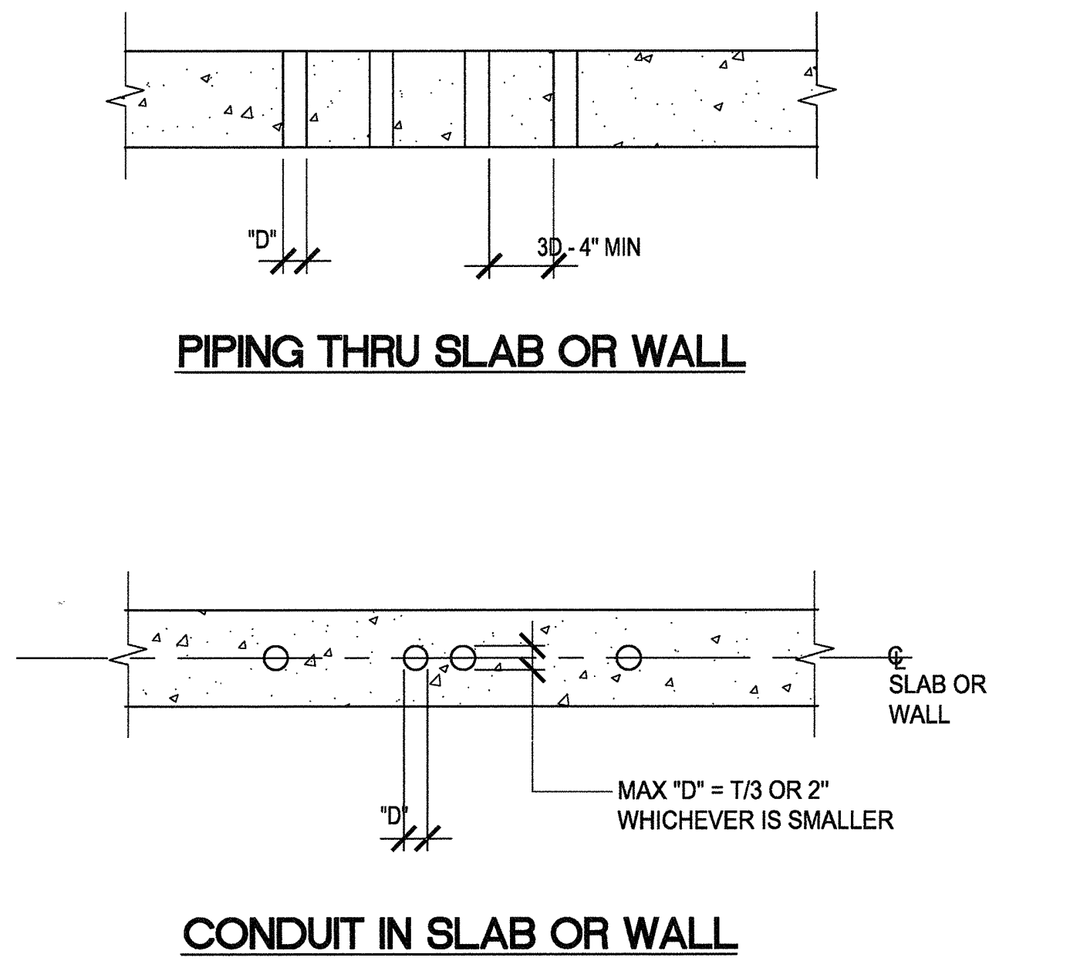
NOTES:
1. UNFORMED FOOTING DETAIL MAY BE USED PROVIDED TRENCH IS STABLE & APPROVED BY STRUCTURAL ENGINEER.
2. STARTER WALL IS REQ'D FOR ALL MASONRY & CONC. WALLS.
3. SOLID FORM LUMBER MAY BE USED IN UNEXPOSED CONSTRUCTION IF IN GOOD SOUND CONDITION.
4. ALL ANCHOR BOLTS, REINFORCING, INSERTS, ETC. TO BE FIRMLY TIED IN PLACE PRIOR TO PLACING CONCRETE.

⑤ FORMS FOR FOUNDATION

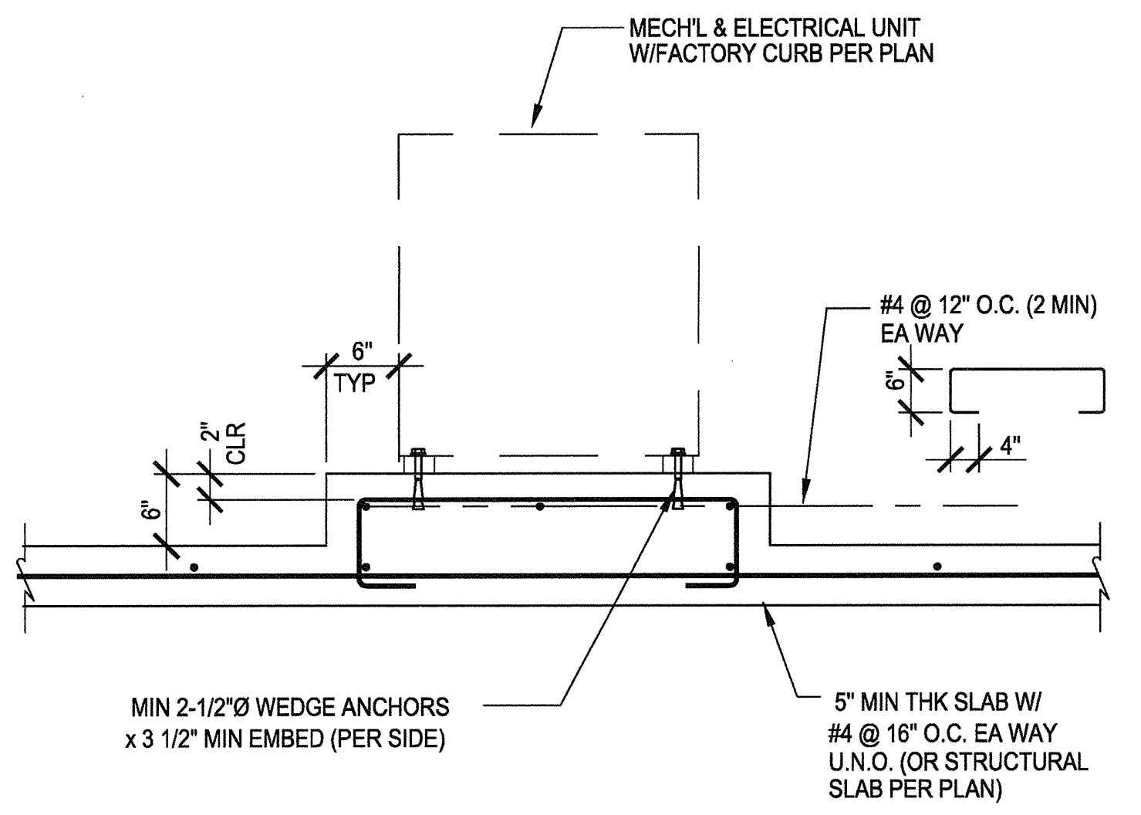


NOTE
FOR PIPE MORE THAN 3'-0" BELOW BOTTOM OF FOOTING USE COMPACTED FILL.

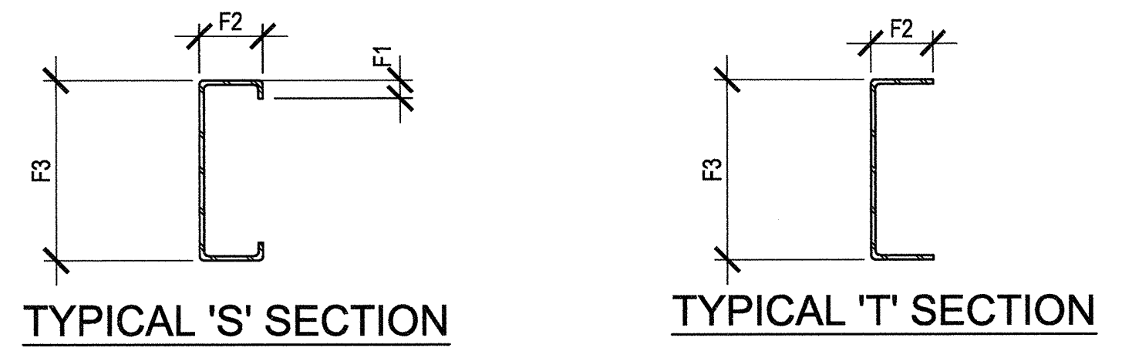
⑥ PIPES THROUGH FOOTING



⑦ SLAB ON GRADE



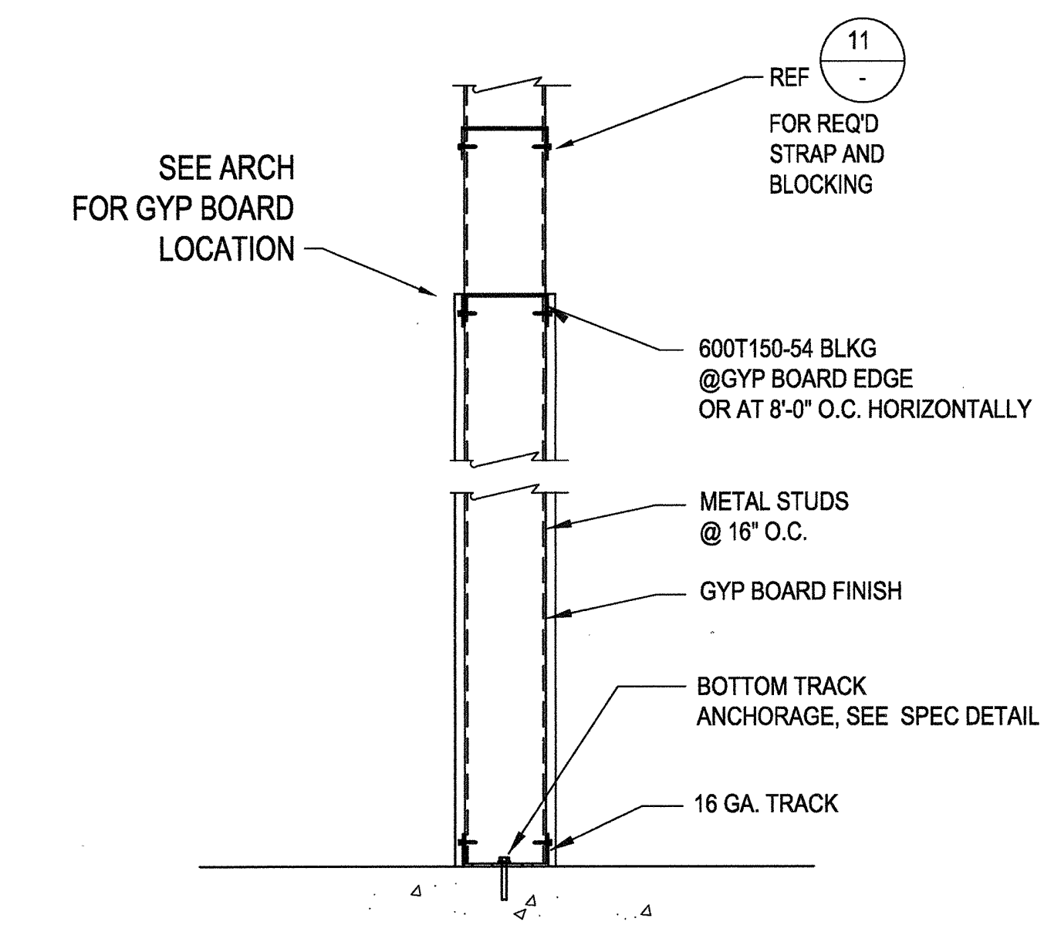
⑧ MECHANICAL EQUIPMENT PAD



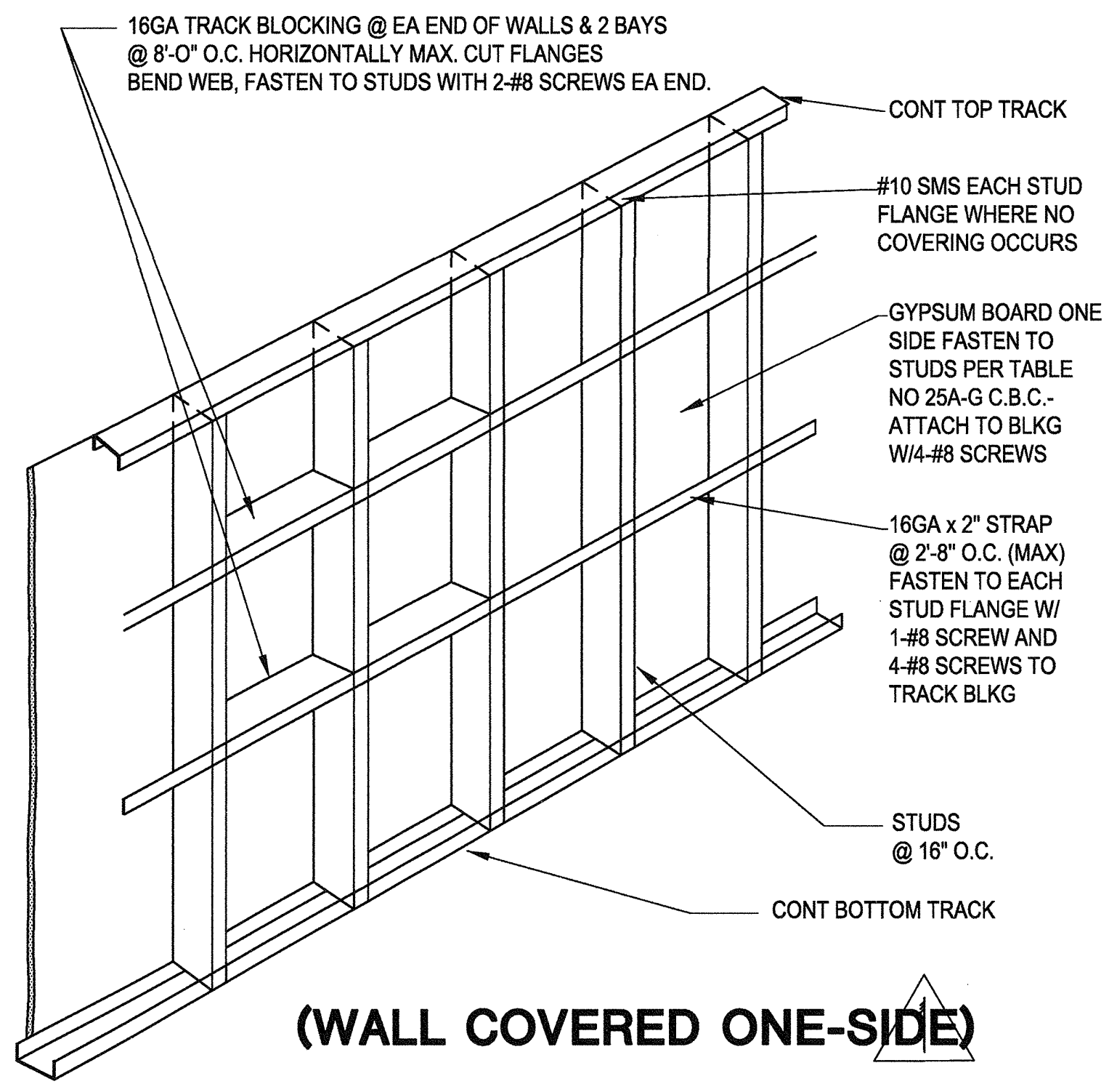
MINIMUM SECTION PROPERTIES							
MEMBER	A	I_{xx}	S	F1 (in)	F2 (in)	F3 (in)	*MAX HT.
400S162-33	0.275	0.692	0.346	0.500	1.625	4	12'-2"
400S162-43	0.357	0.892	0.446	0.500	1.625	4	13'-4"
400T150-43	0.315	0.811	0.390	—	1.500	4	—
400T150-54	0.396	1.025	0.489	—	1.500	4	—
600S162-33	0.344	1.793	0.598	0.500	1.625	6	13'-3
600S162-43	0.447	2.316	0.772	0.500	1.625	6	14'-5
600S162-54	0.556	2.860	0.953	0.500	1.625	6	15'-6
600T150-43	0.405	2.072	0.673	—	1.500	6	—
600T150-54	0.509	2.611	0.843	—	1.500	6	—
600T150-68	0.641	3.309	1.059	—	1.500	6	—

*DESIGN BASED ON 25PSF FOR NON-LOAD BEARING STUDS AT 16" O.C.

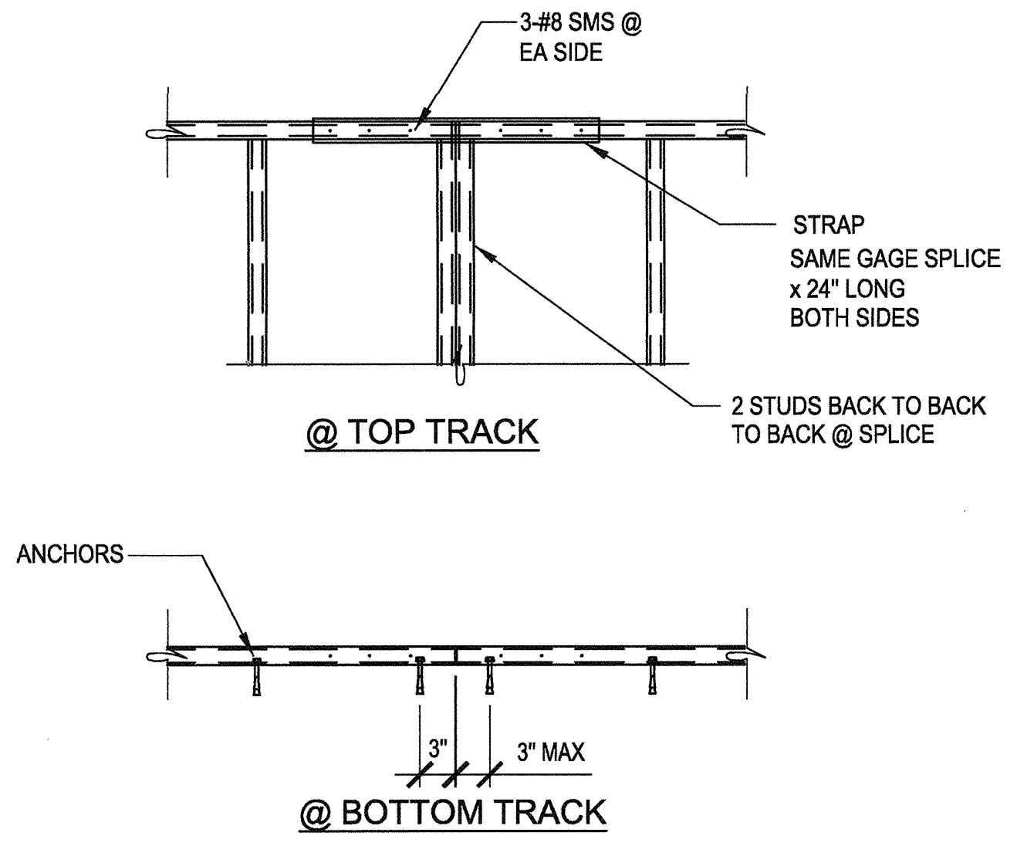
⑨ STUD PROPERTIES



⑩ WALL BLOCKING SECTION



⑪ WALL BLOCING SECTION AT ONE SIDED COVER



⑫ BOTTOM AND TOP TRACK

OWNER:EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME:EL MONTE HIGH SCHOOL
BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

No. 2998
Exp. 6-30-18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC____ FLS _KB_ SS _L_
DATE _2/3/2017_
FILE # 19-H10

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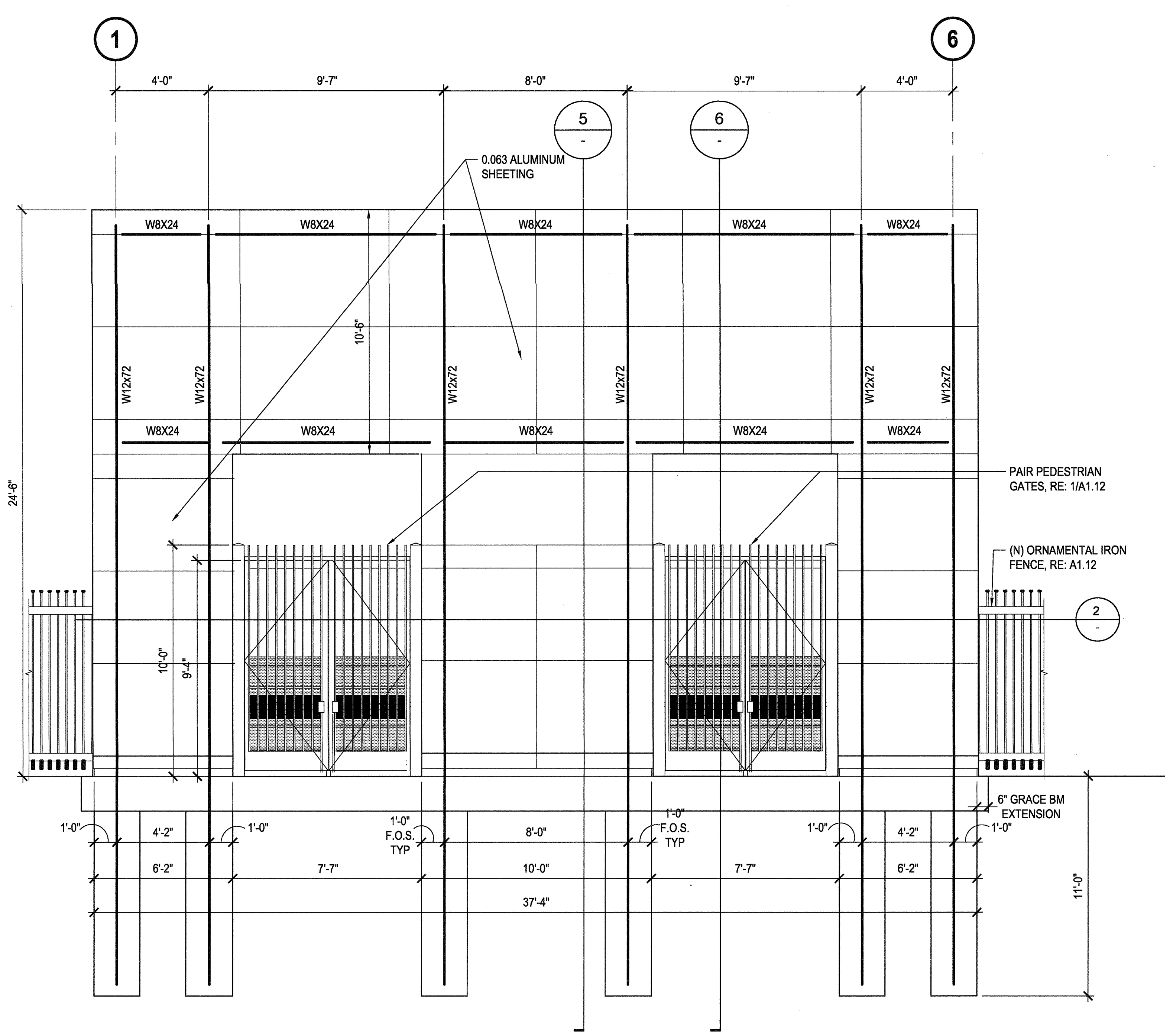
DATE ISSUED: 01-23-2017
PROJECT NO: 14-046.01
SCALE: AS NOTED

SHEET NUMBER: S1.0
SHEET TITLE:

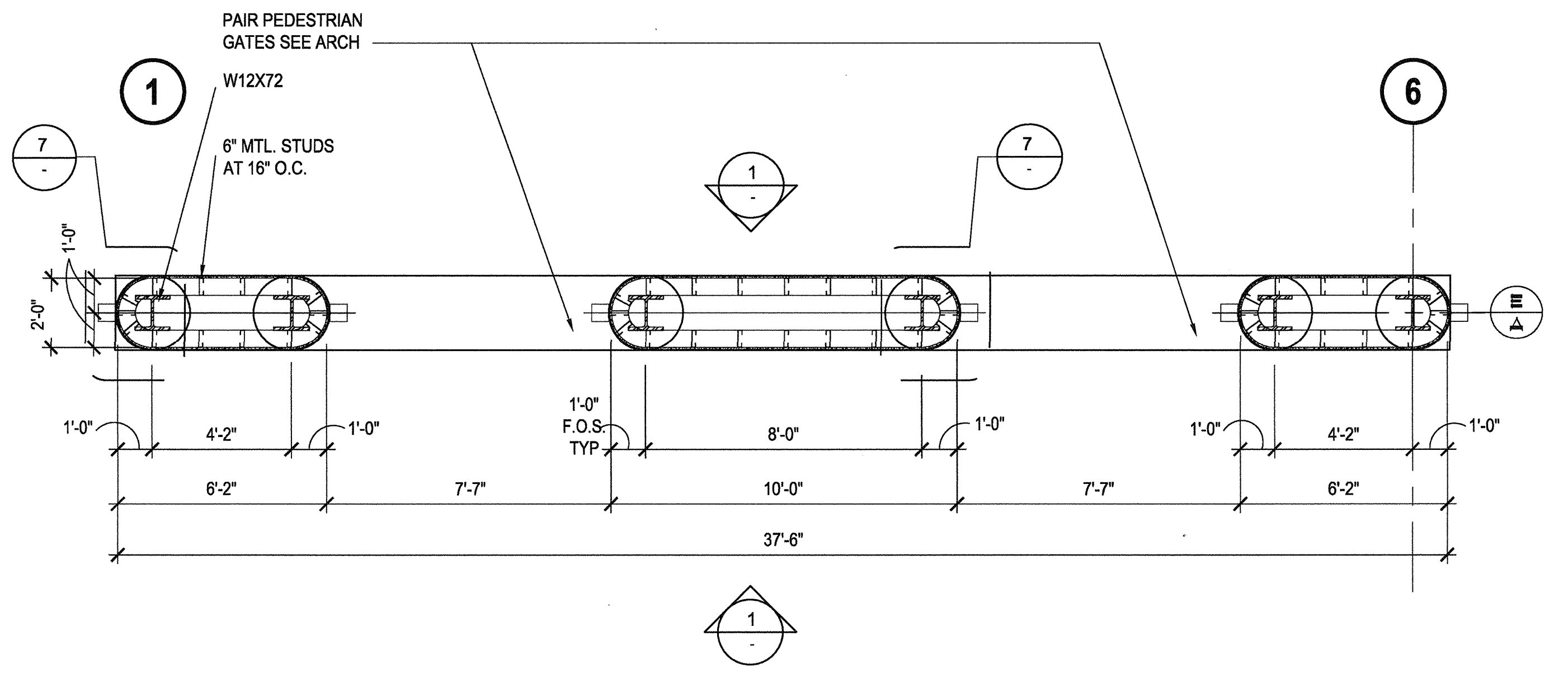
TYPICAL DETAILS

WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
PH: 714-352-6297
J.N.: 14-046.01

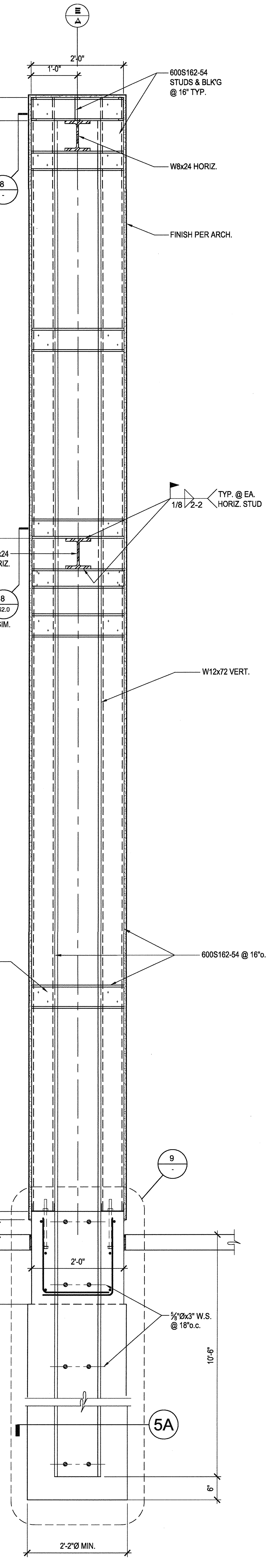
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

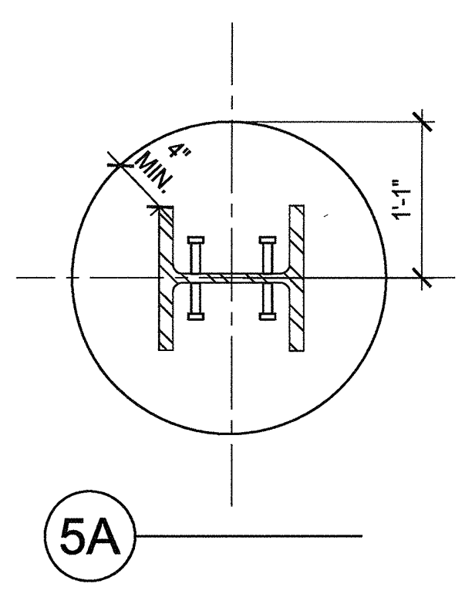


1 **ELEVATION - ENTRY**
SCALE: 1/4"=1'-0"



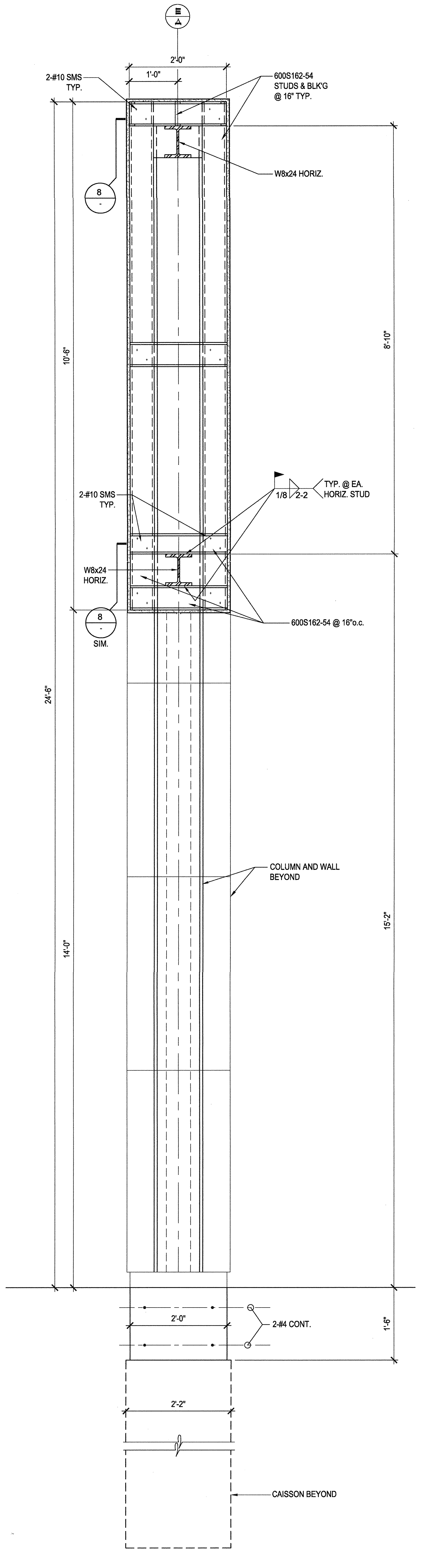
2 **PLAN - ENTRY**
SCALE: 1/4"=1'-0"



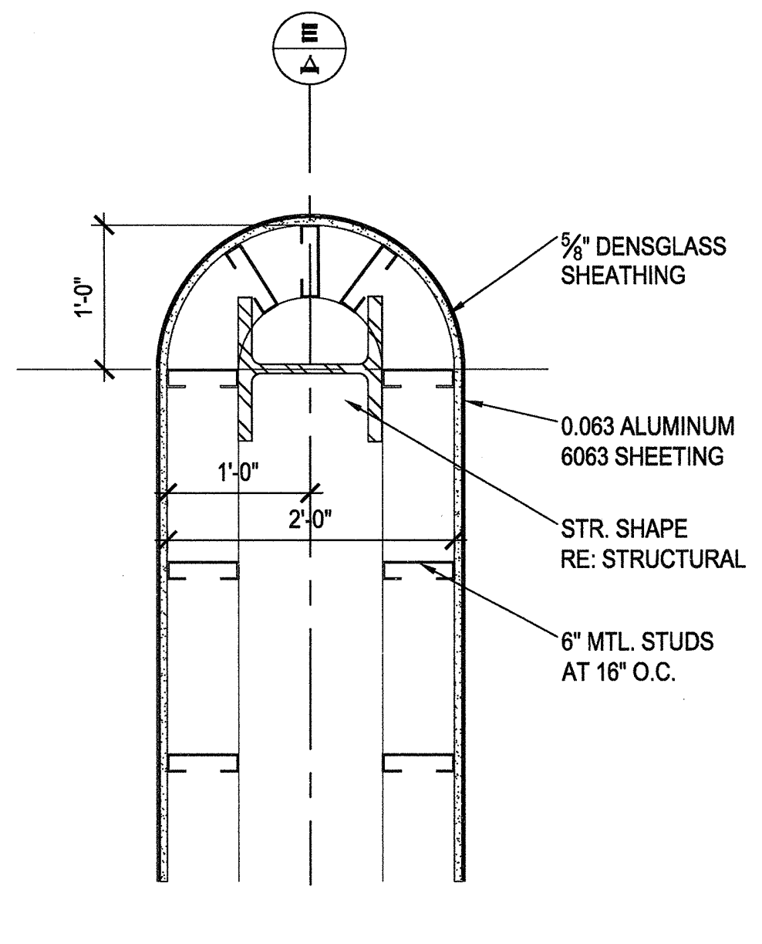


5A

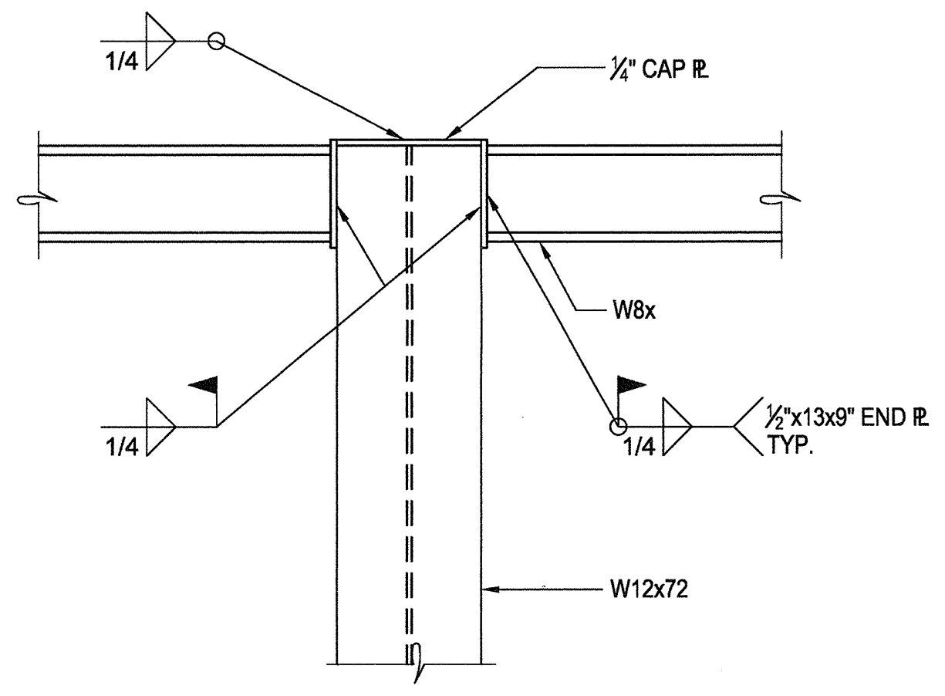
5 **SECTION**
SCALE: 3/4"=1'-0"



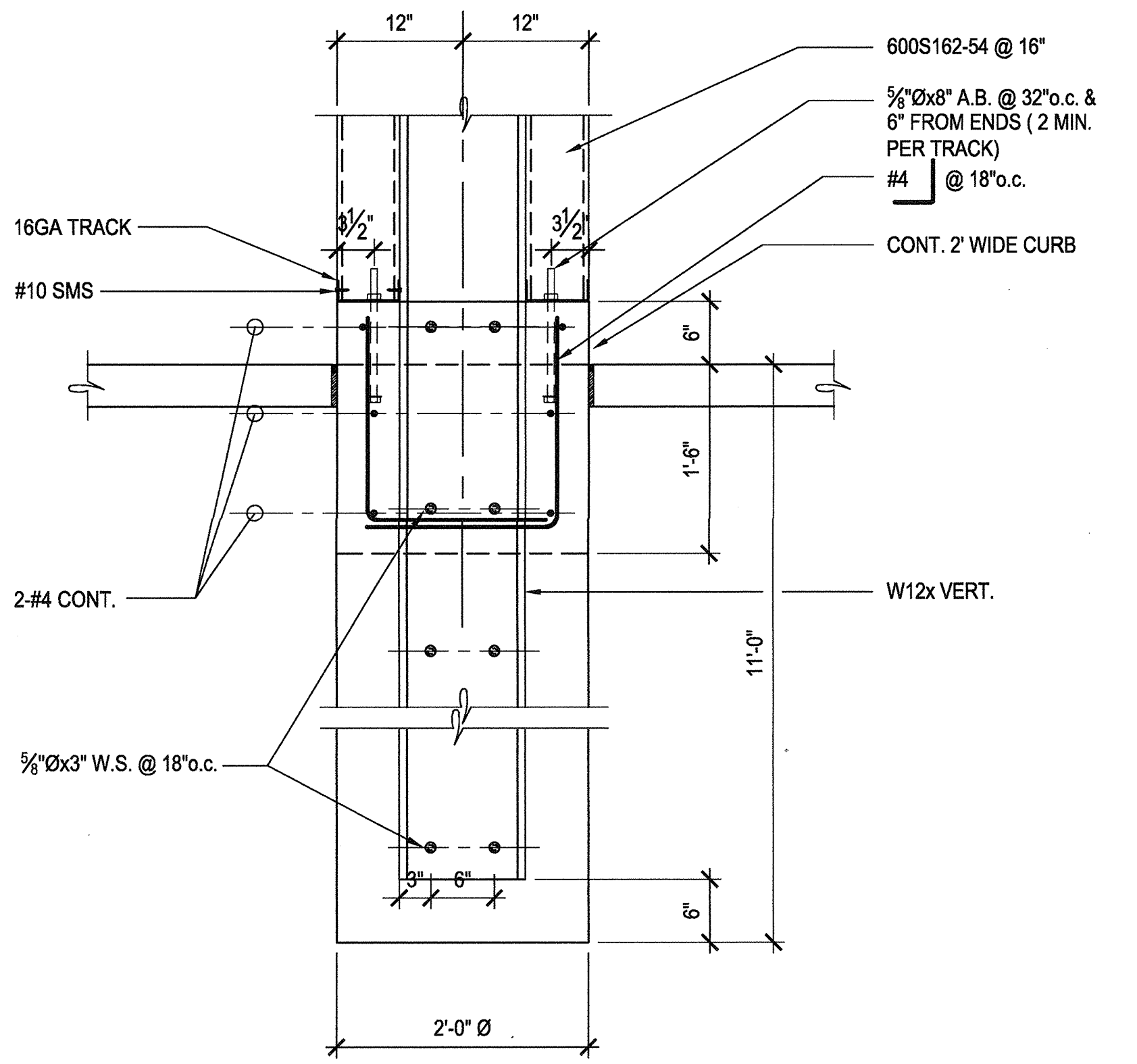
6 **SECTION**
SCALE: 3/4"=1'-0"


1'-0"
5/8" DENSGLASS SHEATHING
0.063 ALUMINUM 6063 SHEETING
1'-0"
2'-0"
STR. SHAPE RE: STRUCTURAL
6" MTL. STUDS AT 16" O.C.

7 **DETAIL**
SCALE: 3/4"=1'-0"



8 **DETAIL**
SCALE: 3/4"=1'-0"



9 **DETAIL**
SCALE: 3/4"=1'-0"

OWNER:EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

No. 2998
Exp. 6-30-18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC / FLS KM SS
DATE 2/3/2017
FILE # 19-H10

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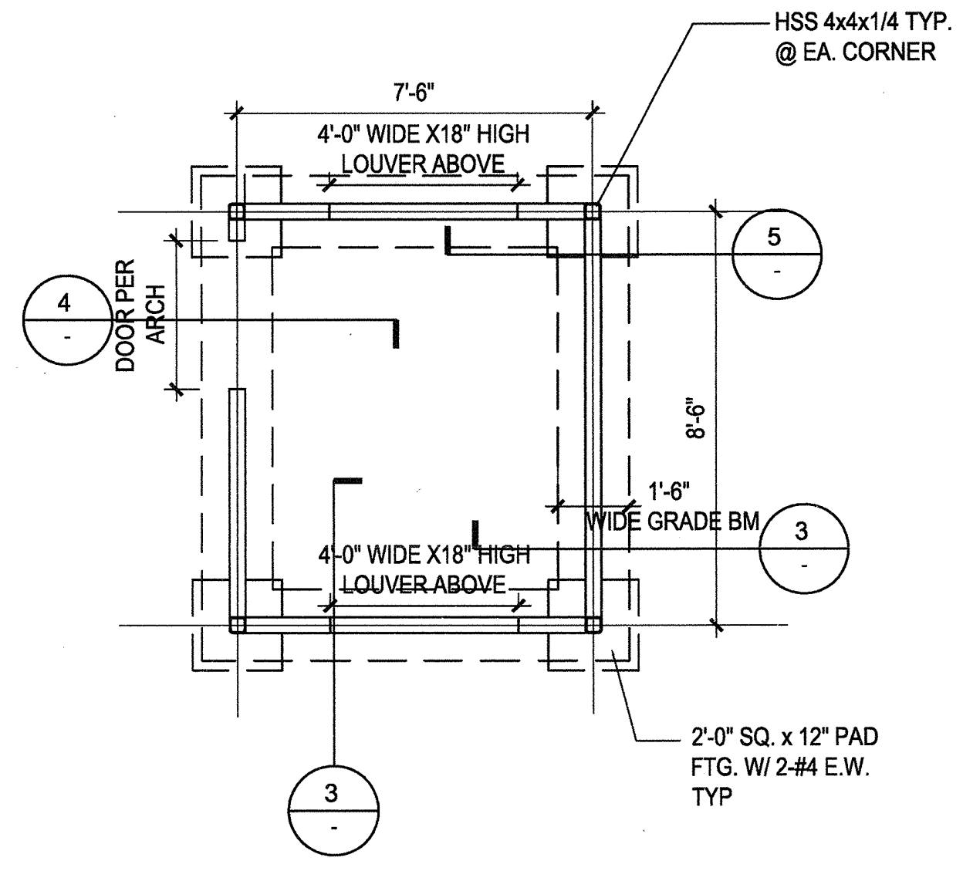
DATE ISSUED: 01-23-2017
PROJECT NO: 14-046.01
SCALE: AS NOTED

SHEET NUMBER: **S2.0**
SHEET TITLE:

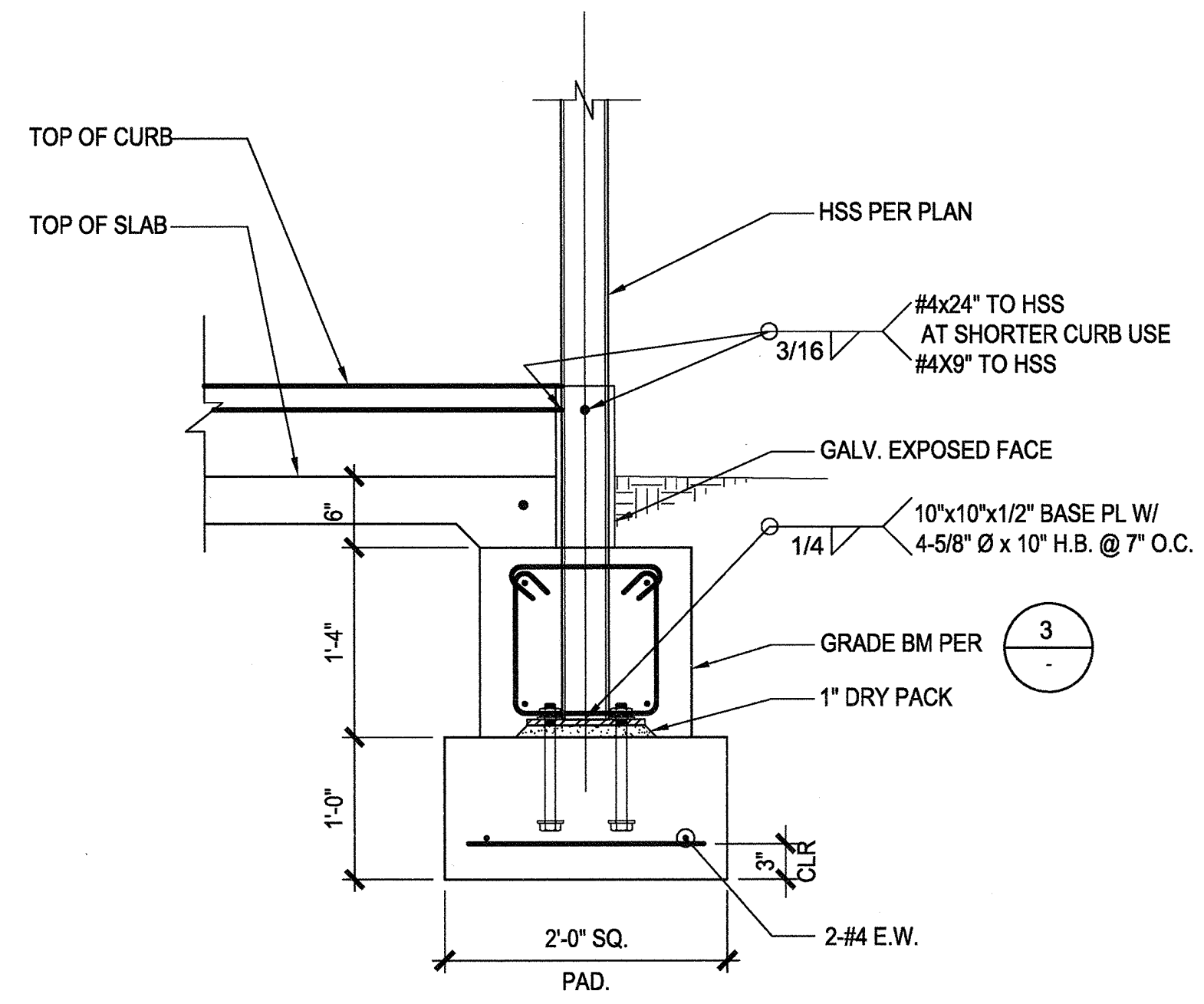
ENTRY GATE PLANS AND DETAILS

WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
PH: 714-352-6297
J.N.: 14-046.01

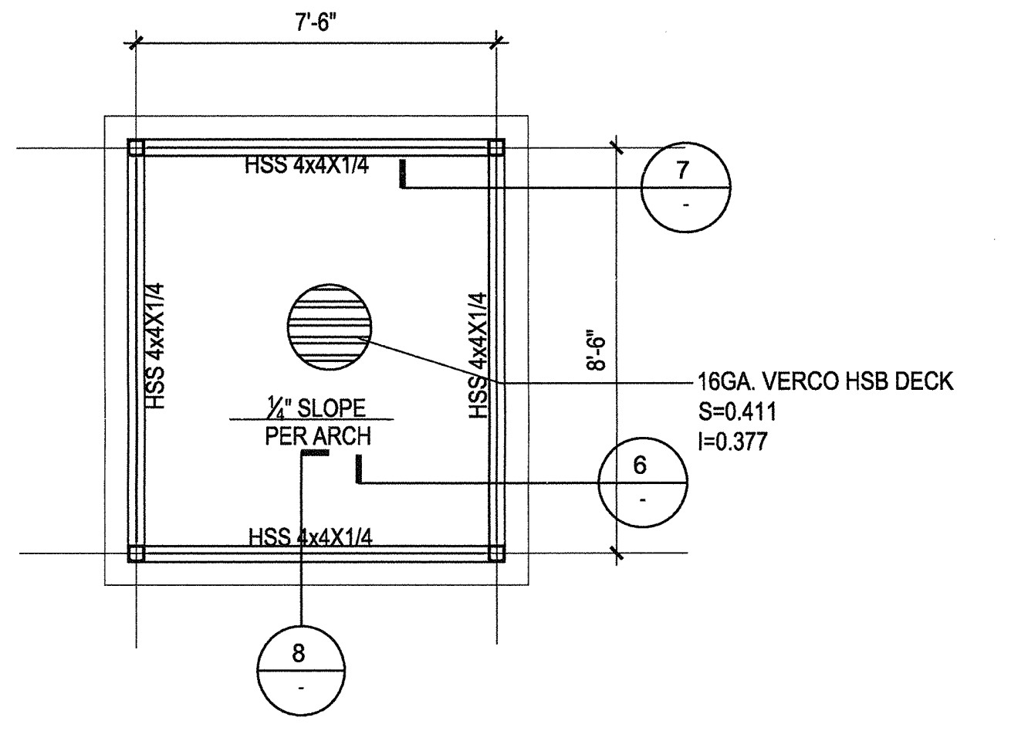
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU


7'-6"
4'-0" WIDE X18" HIGH LOUVER ABOVE
HSS 4x4x1/4 TYP. @ EA. CORNER
DOOR PER ARCH
4
5
8'-6"
1'-6" WIDE GRADE BM
3
4'-0" WIDE X18" HIGH LOUVER ABOVE
2'-0" SQ. x 12" PAD FTG. W/ 2-#4 E.W. TYP
3

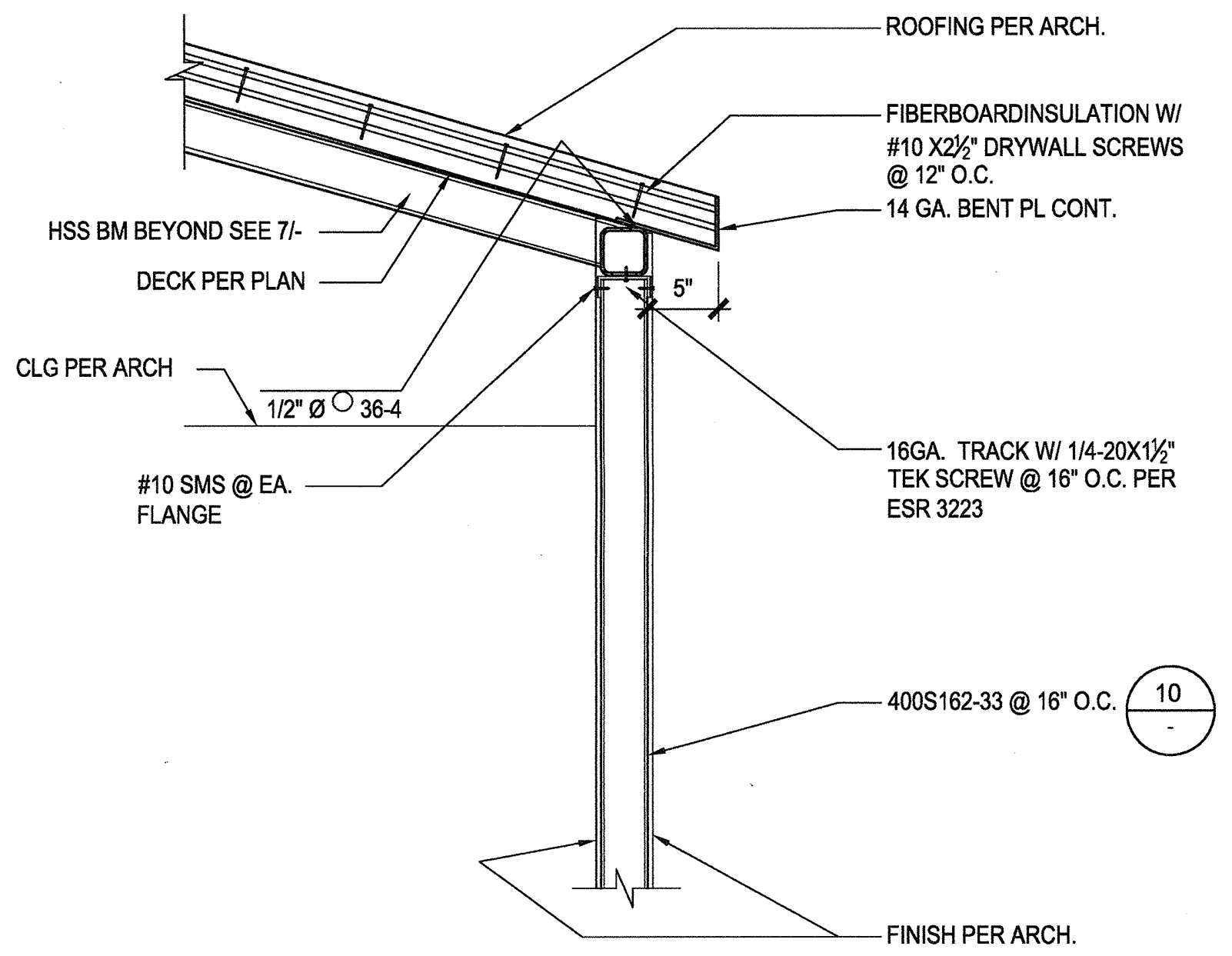
1 FOUNDATION PLAN WATER PUMP BLDG
SCALE: 1/4"=1'-0"



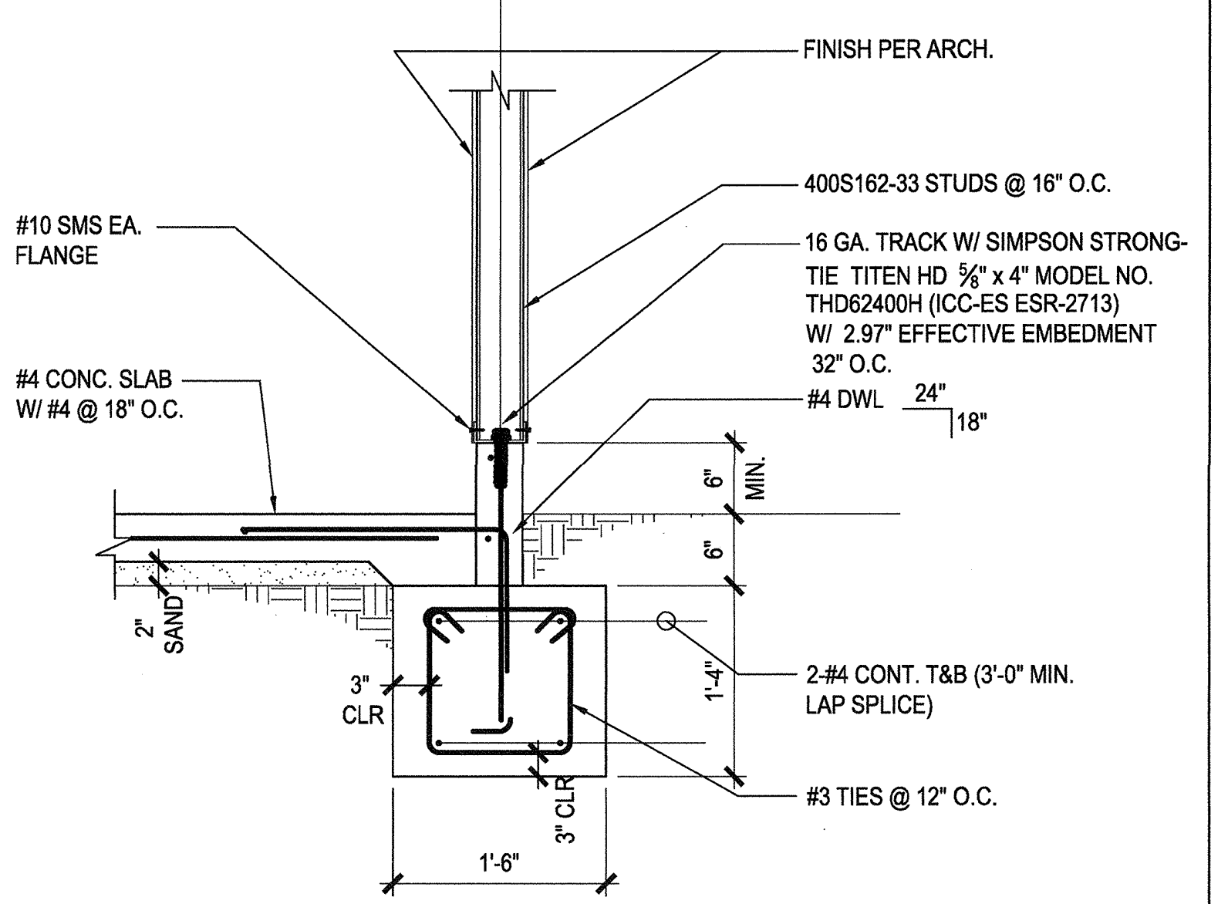
5 FOOTING SECTION
SCALE: 3/4"=1'-0"



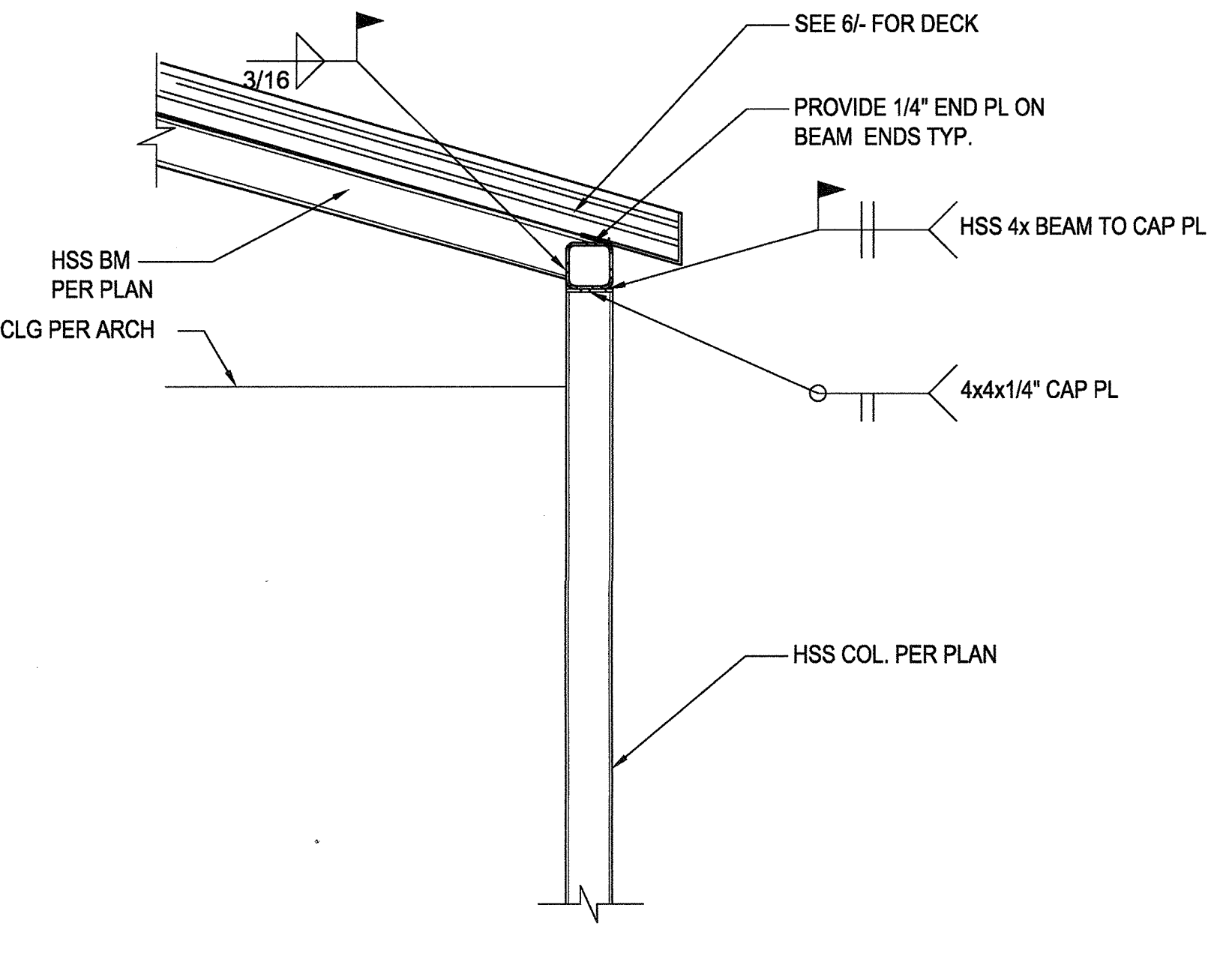
2 ROOF FRAMING PLAN WATER PUMP BLDG
SCALE: 1/4"=1'-0"



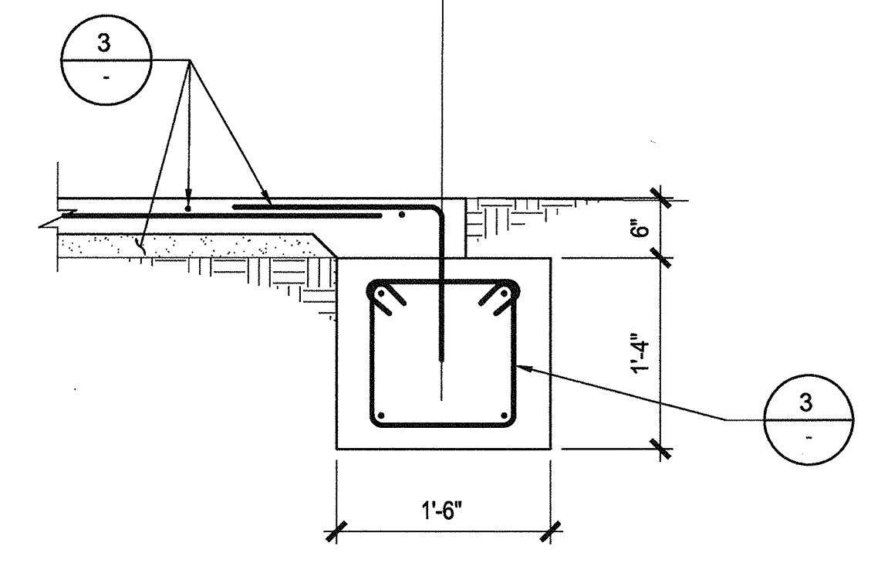
6 ROOF SECTION
SCALE: 3/4"=1'-0"


FINISH PER ARCH.
#10 SMS EA. FLANGE
400S162-33 STUDS @ 16" O.C.
16 GA. TRACK W/ SIMPSON STRONG-TIE TITEN HD ⅜" x 4" MODEL NO. THD62400H (ICC-ES ESR-2713) W/ 2.97" EFFECTIVE EMBEDMENT 32" O.C.
#4 CONC. SLAB W/ #4 @ 18" O.C.
#4 DWL 24" 18"
6" MIN.
SAND 2"
2-#4 CONT. T&B (3'-0" MIN. LAP SPLICE)
3" CLR
1'-4"
#3 TIES @ 12" O.C.
3" CLR
1'-6"

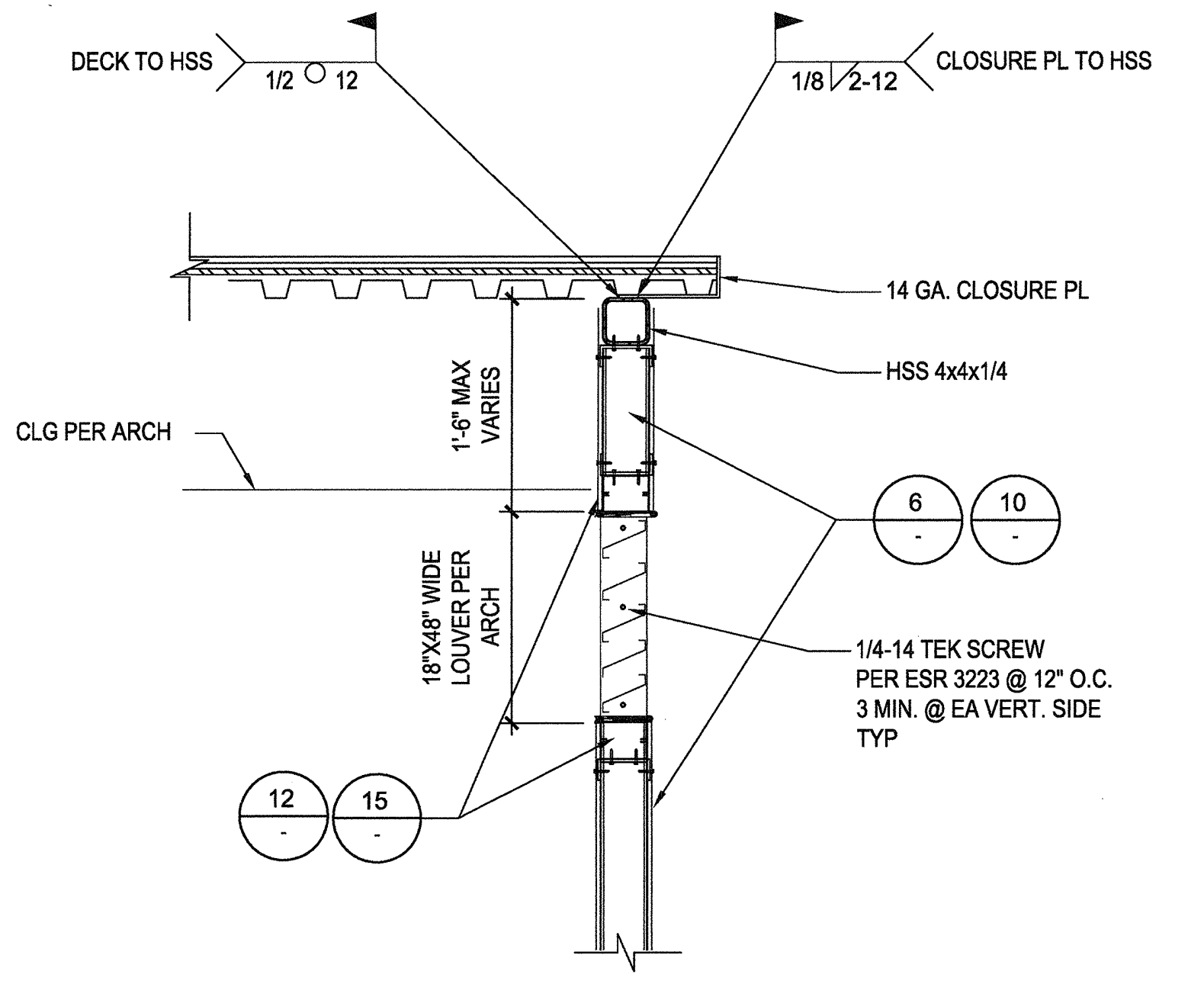
3 FOOTING SECTION
SCALE: 3/4"=1'-0"



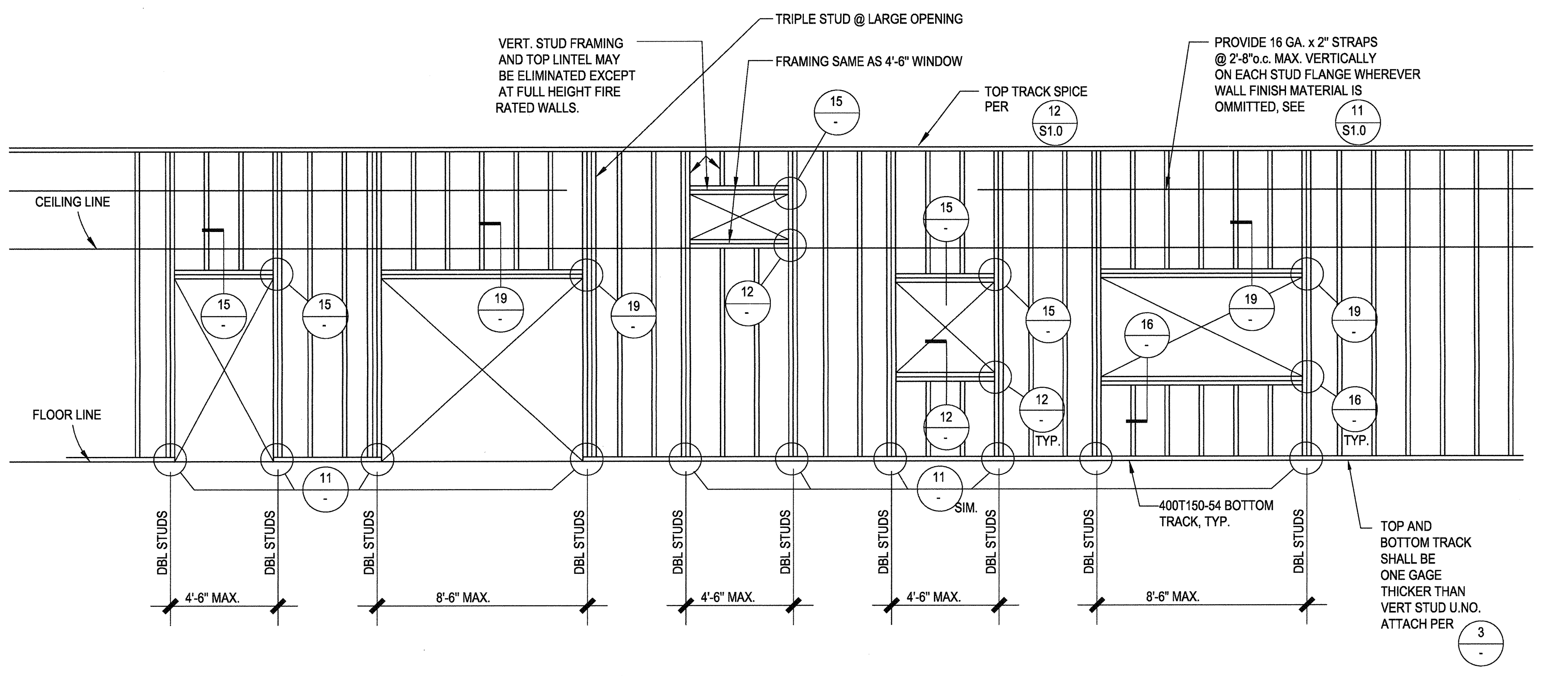
7 ROOF SECTION
SCALE: 3/4"=1'-0"



4 FOOTING SECTION
SCALE: 3/4"=1'-0"


DECK TO HSS 1/2 12
1/8 2-12 CLOSURE PL TO HSS
14 GA. CLOSURE PL
HSS 4x4x1/4
CLG PER ARCH
1'-6" MAX VARIES
6
10
18"X48" WIDE LOUVER PER ARCH
1/4-14 TEK SCREW PER ESR 3223 @ 12" O.C. 3 MIN. @ EA VERT. SIDE TYP
12
15

8 ROOF SECTION
SCALE: 3/4"=1'-0"

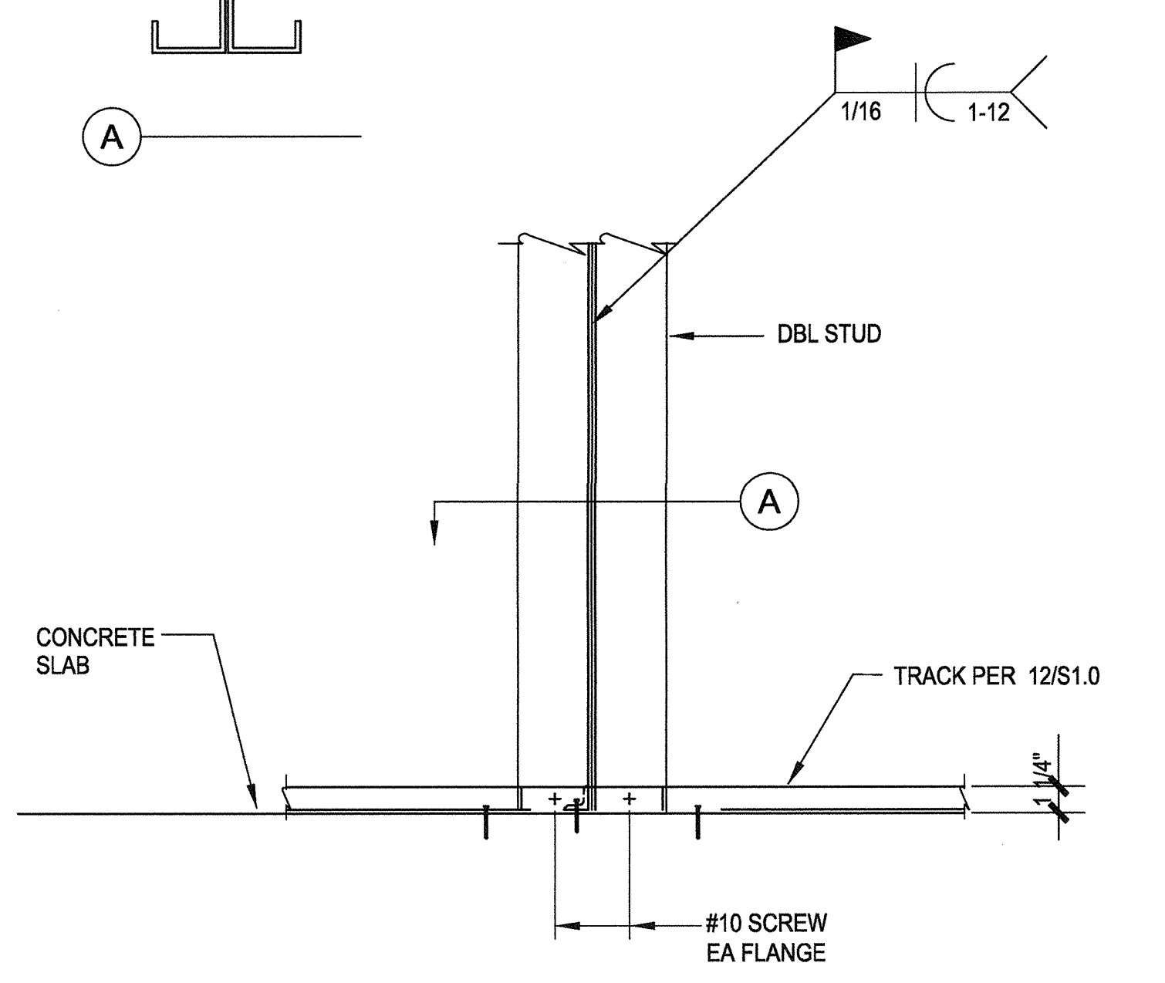

VERT. STUD FRAMING AND TOP LINTEL MAY BE ELIMINATED EXCEPT AT FULL HEIGHT FIRE RATED WALLS.
TRIPLE STUD @ LARGE OPENING
FRAMING SAME AS 4'-6" WINDOW
TOP TRACK SPLICE PER 12 S1.0
PROVIDE 16 GA. x 2" STRAPS @ 2'-8"o.c. MAX. VERTICALLY ON EACH STUD FLANGE WHEREVER WALL FINISH MATERIAL IS OMMITTED, SEE 11 S1.0
CEILING LINE
FLOOR LINE
15
19
12
16
11
SIM.
TYP.
400T150-54 BOTTOM TRACK, TYP.
TOP AND BOTTOM TRACK SHALL BE ONE GAGE THICKER THAN VERT STUD U.N.O. ATTACH PER 3
DBL STUDS
4'-6" MAX.
8'-6" MAX.
4'-6" MAX.
4'-6" MAX.
8'-6" MAX.

NOTE:

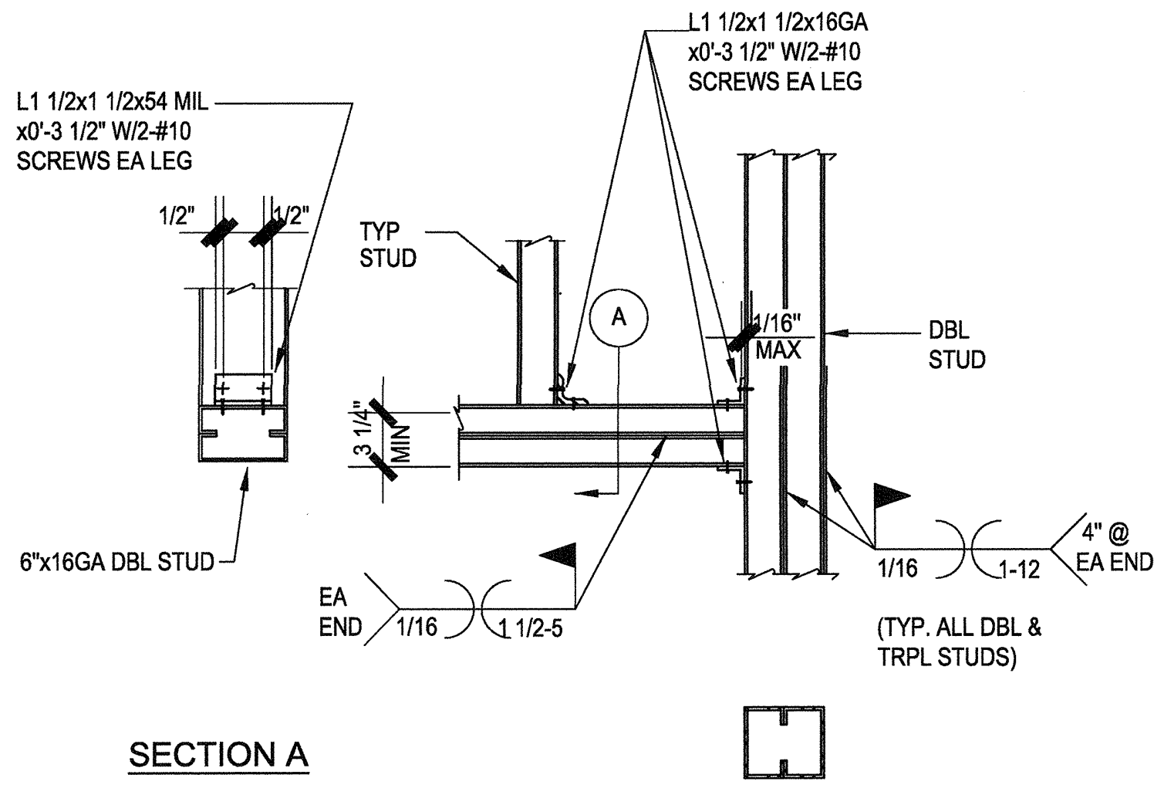
1. FOR INTERIOR NON-BEARING WALLS USE 400S162-33 GA @ 16" O.C. (MAX.) W/ 18 GA TRACK U.N.O.

   FOR EXTERIOR NON-BEARING WALLS REF PLAN AND SECTIONS FOR REQUIRED SIZE.
2. ALL STUDS SHALL BE "S" STUDS WITH FLANGE STIFFENERS AT OPEN SIDE.
3. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENINGS BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
4. SEE DETAIL 12/S1.0 FOR TOP & BOTTOM TRACK SPLICE DETAIL.
5. SEE DETAIL 3/- FOR STUD ATTACHMENT TO TRACK
6. WHERE STUD TRACK SITS ON NON-STRUCTURAL FLOOR MATERIAL SUCH AS TILE, MARBLE, ETC., USE 3/8" DIA HILTI KWIK BOLTS WITH 3" EMBEDMENT IN LIEU OF DN PINS. (ONE FOR ONE SUBSTITUTION).
7. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTINGOR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
9. ALL DBL & TRIPLE STUDS TO BE WELDED

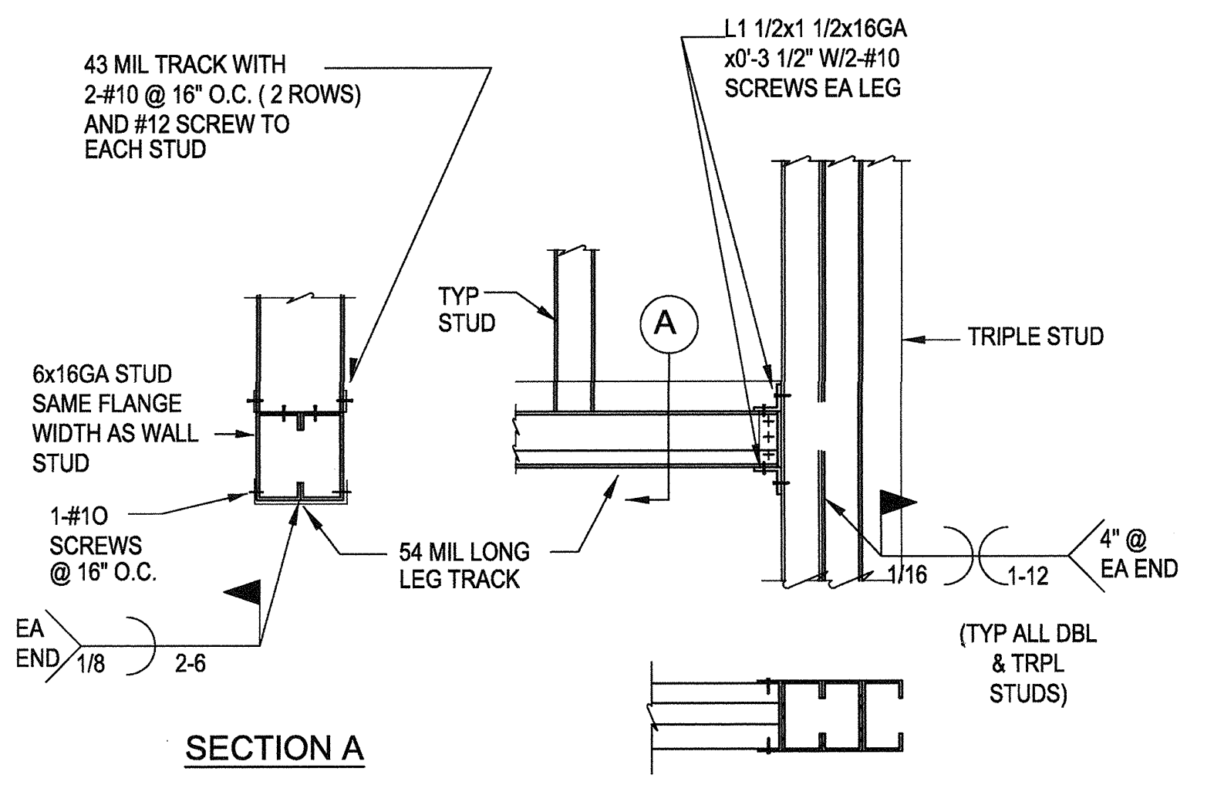
10 TYPICAL METAL STUD WALL FRAMINING ELEVATION
SCALE: 3/4"=1'-0"



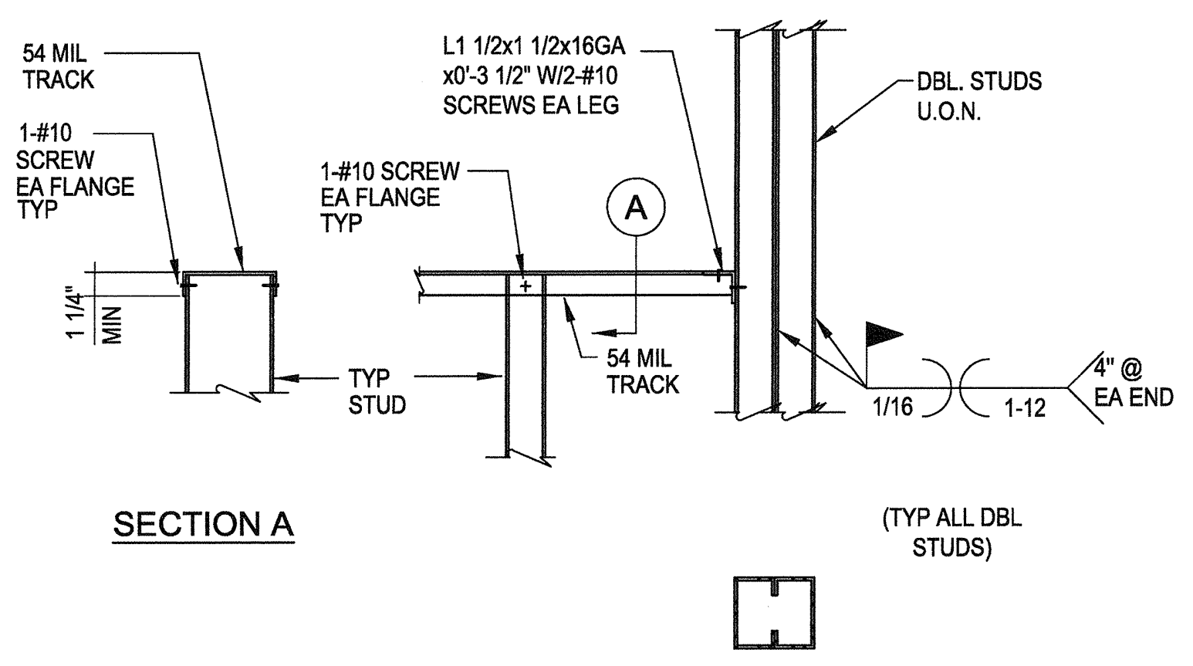
11 DOUBLE STUD
SCALE: 3/4"=1'-0"


L1 1/2x1 1/2x54 MIL x0'-3 1/2" W/2-#10 SCREWS EA LEG
L1 1/2x1 1/2x16GA x0'-3 1/2" W/2-#10 SCREWS EA LEG
1/2"
1/2"
TYP STUD
A
3/16" MAX
DBL STUD
1 1/4"
6"x16GA DBL STUD
EA END 1/16 1 1/2-5
1/16
1-12
4" @ EA END
(TYP. ALL DBL & TRPL STUDS)
SECTION A

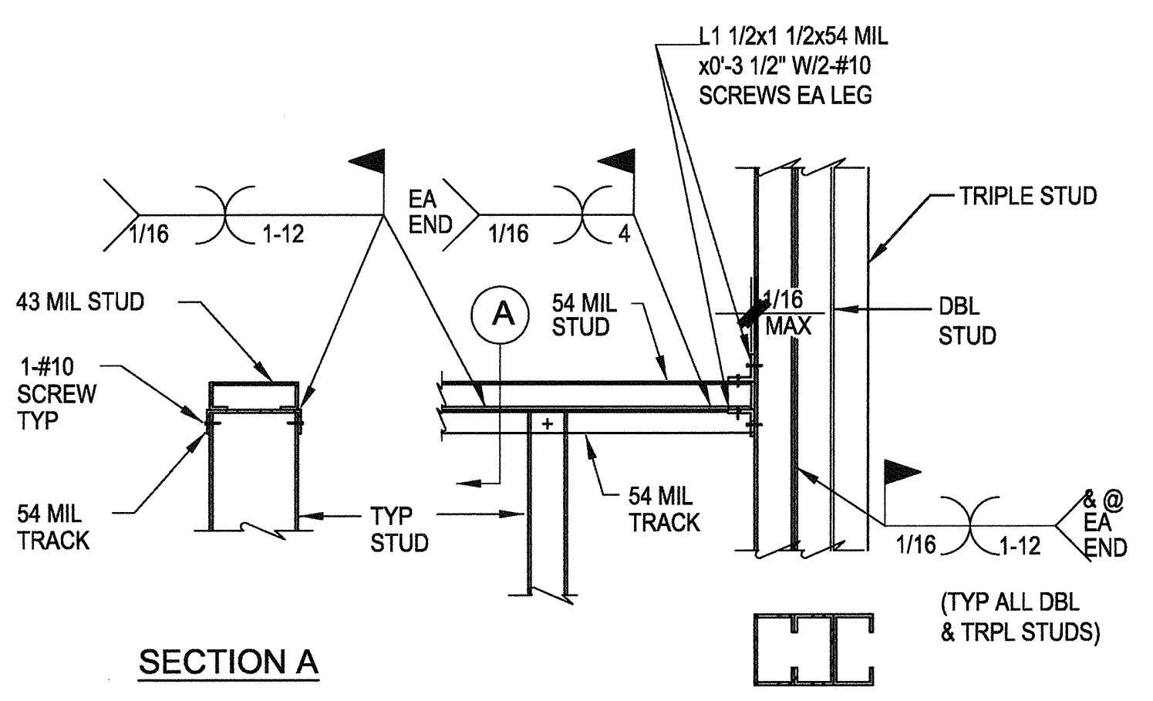
15 LINTEL DETAIL (4'-6" MAX.)
SCALE: 3/4"=1'-0"


43 MIL TRACK WITH 2-#10 @ 16" O.C. (2 ROWS) AND #12 SCREW TO EACH STUD
L1 1/2x1 1/2x16GA x0'-3 1/2" W/2-#10 SCREWS EA LEG
TYP STUD
A
TRIPLE STUD
6x16GA STUD SAME FLANGE WIDTH AS WALL STUD
1-#10 SCREWS @ 16" O.C.
54 MIL LONG LEG TRACK
EA END 1/8 2-6
1/16
1-12
4" @ EA END
(TYP ALL DBL & TRPL STUDS)
SECTION A

19 LINTEL DETAIL (8'-6" MAX.)
SCALE: 3/4"=1'-0"



12 SILL DETAIL (4'-6" MAX.)
SCALE: 3/4"=1'-0"



16 SILL DETAIL (8'-6" MAX.)
SCALE: 3/4"=1'-0"

OWNER:EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

No. 2998
Exp. 6-30-18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC ______ FLS KB SS
DATE 2/3/2017

REVISIONS:

DATE ISSUED: 01-23-2017
PROJECT NO: 14-046.01
SCALE: AS NOTED

SHEET NUMBER: S2.1
SHEET TITLE:

PLANS AND DETAIL FOR WATER PUMP BUILDING

WSI
WELSH STRUCTURES, INC.
12722 BARRETT LANE
SANTA ANA, CA 92705
PH: 714-352-6297
J.N.: 14-046.01

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM
SANTA ANA OAKLAND SAN DIEGO HONOLULU

GENERAL NOTES

1. COORDINATE LOCATION OF DUCTWORK AND VOLUME DAMPERS WITH CEILING ACCESS PANELS AS SHOWN ON ARCHITECTURAL PLANS. ALL VOLUME DAMPERS MUST BE ACCESSIBLE FROM CEILING ACCESS PANELS.
2. THE CONTRACTOR SHALL COOPERATE WITH ALL TRADES IN PROVIDING INFORMATION AS TO OPENINGS REQUIRED IN WALLS, ROOF FOR ALL PIPING, DUCTWORK AND EQUIPMENT. PACK AND GROUT OPENINGS.
3. FABRIC OVER INSULATION SHALL BE GIVEN ONE COAT OF POLYVINYL ACETATE SEALER.
4. ALL SHOP PRIMED SURFACES SHALL BE CAREFULLY INSPECTED AFTER INSTALLATION; AND ALL ABRASIONS, BARE SPOTS, RUSTY AREAS, AND SIMILAR DEFECTIVE WORK SHALL BE CLEANED & PAINTED.
5. UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, TEMPORARY PROTECTIVE COVERINGS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIP. SHALL BE REMOVED FROM THE SITE.
6. FINALLY, THE ENTIRE INSTALLATION SHALL BE LEFT IN A NEAT, CLEAN AND USABLE CONDITION.
7. WHERE FIREPROOFING HAS BEEN DAMAGED BECAUSE OF WORK OF THIS CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.
8. LOW PRESSURE DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE SMACNA STANDARD. ALL JOINTS SHALL BE SEALED WITH DURO-DYNE S-2 DUCT SEALER WITH CALIFORNIA STATE FIRE MARSHAL LISTING NO. 8535-113:11.
9. ROUND DUCTS SHALL BE SPIRAL TYPE WITH MATCHING FITTINGS MANUFACTURED BY "UNITED SHEET METAL" AND SHEET GAUGES AS PER SMACNA.
10. CHANGE IN DIRECTION AND SIZE:
ELBOWS WITH THROAT RADIUS 75 PERCENT OF THE DIMENSION OF THE ADJACENT DUCT AS MEASURED IN THE SAME DIRECTION, EXCEPT WHERE OTHERWISE DETAILED. DUCT TURNS USED WHERE INDICATED. IN DUCTS 20 INCHES WIDE OR LESS, USE BARBER-COLMAN DUCT TURNS OR AS ACCEPTED. TRANSITIONS WITH LENGTHS NOT SHORTER
11. JOINTS: ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIRTIGHT FOR THE PURPOSE INTENDED. SEAL WITH DURO-DYNE S-2 DUCT SEALER WITH CALIFORNIA STATE FIRE MARSHAL LISTING NO. 8535-113:11.
12. ALL SUPPLY AND RETURN DUCTWORK IN ATTIC SHALL BE INSULATED WITH 1-1/2 INCH THICK FIBERGLASS BLANKET, JOINTS LAPPED NOT LESS THAN 1-1/2 INCHES AND INSULATION SECURED WITH #16 SOFT GALVANIZED IRON WIRE SPACED 12 INCHES ON CENTERS. FLAME SPREAD NOT OVER 25. FUEL CONTRIBUTED NOT OVER 50. SMOKE DEVELOPED NOT OVER 50. INSULATION SHALL BE AS MANUFACTURED BY MANVILLE OR EQUAL. THE FIRST 10' OF THE SUPPLY AIR AND RETURN AIR DUCTS SHALL HAVE 1" LINING FOR SOUND SUPPRESSION. NO WRAP INSULATION REQUIRED FOR LINED DUCT. LINED DUCT SIZES IS NET INSIDE.
13. LOW PRESSURE FLEXIBLE DUCT TO REGISTER BOXES SHALL BE BY "THERMAFLEX" OR APPROVED EQUAL. DUCT SHALL BE UL-181 CLASS 1. AIR DUCT MATERIAL SHALL BE LISTED AND LABELED WITH FLAME AND SMOKE RATING.
14. LOW PRESSURE FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1-1/2 INCH THICK FIBER GLASS INSULATION WITH INSULATED THERMAL RESISTANCE OF 4.2, ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
15. FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH TWO INCH WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. MAX. LENGTH OF SEVEN FEET CONNECTING TO TERMINAL OUTLETS.
16. VOLUME DAMPERS: INSTALL WHERE SHOWN AND AT THE BRANCH TAKE OFF CONNECTION EVEN THOUGH SUCH BALANCING DAMPERS MAY NOT BE SHOWN ON DRAWINGS. MANUALLY OPERATED OPPOSED BLADE DAMPERS WITH INTERLOCKING EDGES. FABRICATED OF 18 GAUGE STEEL AND EQUIPPED WITH LOCKING QUADRANTS. DURO-DYNE SRC-380 DAMPER REGULATORS SHALL BE INSTALLED ON DAMPERS ON WRAPPED DUCT.
17. REGISTER BOXES: SHEET METAL REGISTER BOXES SHALL BE PROVIDED FOR ALL CEILING DIFFUSERS AND REGISTERS WITH ROUND DUCT CONNECTIONS.
18. DIFFUSERS IN T-BAR CEILING SHALL BE OF THE MODULAR REMOVABLE CORE 24X24 INCH PERFORATED FACE PANEL TYPE WITH ADJUSTABLE VOLUME DAMPERS. DIFFUSERS SHALL BE METAL - AIRE SERIES 9000-6P. ALL ALUMINUM CONSTRUCTION OR EQUAL IN ANEMOSTAT. FINISH TO BE AS PER ARCHITECT'S INSTRUCTIONS.
19. RETURN AND EXHAUST REGISTERS IN T-BAR CEILING SHALL BE OF METAL-AIRE MODEL CC50TB. ALL ALUMINUM CONSTRUCTION WITH KEY OPERATED OPPOSED BLADE VOLUME CONTROL DAMPERS. REGISTERS SHALL BE PROVIDE WITH 24X24 INCH PERFORATED FACE PLATE AND SHALL BE AS SPECIFIED ABOVE, OR APPROVED EQUAL IN ANEMOSTAT. FINISH TO BE AS PER ARCHITECT'S INSTRUCTIONS.
20. INSULATION:
    - A. ALL MATERIALS MAKING UP DUCT INSULATION, LINING INCLUDING ADHESIVES AND SEALERS, SHALL HAVE A UL FIRE HAZARD CLASSIFICATION WITH FLAME SPREAD OF NOT MORE THAN 25, FUEL CONTRIBUTED NOT MORE THAN 50, AND SMOKE-DEVELOPED NOT MORE THAN 50.
    - B. PRODUCTS: MANUFACTURER SHALL BE OWENS-CORNING, MANVILLE OR CERTAINTEED.
21. AIR BALANCING:
    - A. AFTER BALANCING, CONTRACTOR SHALL DEMONSTRATE TO ARCHITECT OR HIS MECHANICAL ENGINEER THAT THE SYSTEM IS IN BALANCE.
    - B. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE ADJUSTED TO MINIMIZE DRAFTS IN ALL AREAS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 6 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8-HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4-FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

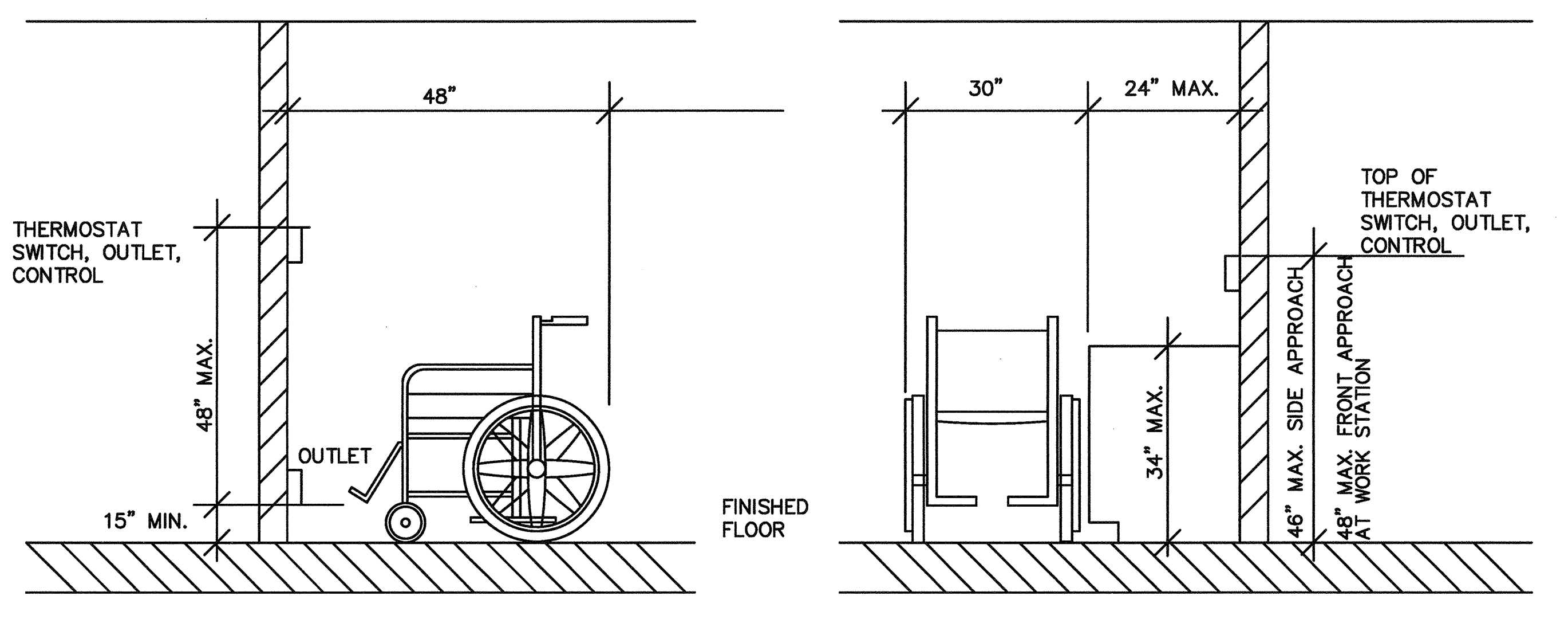
PIPING AND DUCTWORK SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24 AND 1615A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.


48"
THERMOSTAT SWITCH, OUTLET, CONTROL
48" MAX.
OUTLET
15" MIN.
FINISHED FLOOR
30"
24" MAX.
TOP OF THERMOSTAT SWITCH, OUTLET, CONTROL
34" MAX.
46" MAX. SIDE APPROACH
48" MAX. FRONT APPROACH AT WORK STATION

THERMOSTAT MOUNTING HEIGHT OVER OBSTRUCTION

NOT TO SCALE

LEGEND

		NEW SQUARE OR RECTANGULAR DUCT
		NEW ROUND DUCT
		EXISTING DUCT OR EQUIPMENT TO REMAIN
		NEW FLEXIBLE ROUND DUCT
UP (OR DN)		DUCT SLOPE DIRECTION
		DUCT UP OR DOWN
		EXISTING DUCT OR EQUIPMENT TO BE REMOVED
		RADIUS ELBOW (✳ FIG. 2-2)
		RECTANGULAR/SQUARE DUCT THROAT ELBOW WITH VANES (✳FIG. 2-2)
OR		SQUARE 45 DEGREE ENTRY BRANCH CONNECTION (✳FIG. 2-8)
		ROUND DUCT WYE FITTING (✳FIG. 3-5)
OR		RECTANGULAR DUCT PARALLEL FLOW BRANCH (✳FIG. 2-7)
"TH OR "TH		THROAT SIZE ON RECTANGULAR DUCT SPLIT
OR		DUCT TAKE-OFF FROM BOTTOM
OR		DUCT TAKE-OFF FROM TOP
	F.D.	NEW FIRE DAMPER
	FD-SD	NEW FIRE DAMPER/SMOKE DAMPER
	M.V.D.	MANUAL VOLUME DAMPER
		NEW MOTORIZED DAMPER
		NEW BAROMETRIC DAMPER
	C.R.	CEILING REGISTER (RETURN OR OUTSIDE AIR)
☒	C.D.	CEILING DIFFUSER (SUPPLY)
	C.R.	CEILING REGISTER (EXHAUST AIR)
⊠		SUPPLY AIR DUCT SECTION
		RETURN OR OUTSIDE AIR DUCT SECTION
		EXHAUST AIR DUCT SECTION
		SUPPLY AIR DUCT UP THRU FLOOR OR ROOF
		RETURN OROUTSIDE AIR DUCT UP THRU FLOOR OR ROOF
		EXHAUST AIR DUCT UP THRU FLOOR OR ROOF
4 T	T'STAT.	THERMOSTAT WITH ZONE NUMBER MOUNTED AT 48" AFF WITH 30"X48" CLEAR FLOOR SPACE FOR ACCESS
	TEMP.	TEMPERATURE
	TYP.	TYPICAL
2	LVR.	DOOR LOUVER AND SQUARE FOOR AREA
XX X		EQUIPMENT NUMBER
U		UNDERCUT DOOR 3/4 "
	S.P.	STATIC PRESSURE
ϕ	DIA.	ROUND(DIAMETER)
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	IBJS	IN BETWEEN BEAM SPACE
	W/CLG. F.D.	WITH CEILING FIRE DAMPER
	C.G.	CEILING GRILLE
	CFM	CUBIC FEET PER MINUTE
	CFME	CUBIC FEET PER MINUTE OF EXHAUST AIR
	CFMS	CUBIC FEET PER MINUTE OF SUPPLY AIR
	CFMR	CUBIC FEET PER MINUTE OF RETURN AIR
	E. OR EXH.	EXHAUST
	O.S.A.	OUTSIDE AIR
	R. OR RET.	RETURN
	S. OR SUPP.	SUPPLY
◓	POR	POINT OF REMOVAL
◕	POC	POINT OF CONNECTION
	(E)	EXISTING
	MZ	MULTIZONE UNIT
DD		DUCT DETECTOR

✳ REFERS TO "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS

SHEET INDEX

SHT.NO.	DESCRIPTION
M001	GENERAL NOTES, LEGEND, CODES & SHEET INDEX
M002	MECHANICAL EQUIPMENT SCHEDULES
M101	CAMPUS MECHANICAL SITE PLAN
M201	PRESS BOX AND TICKET BOOTH MECHANICAL PLANS
M202	TOILET-CONCESSION MECHANICAL FLOOR PLANS
M203	TOILET-CONCESSION MECHANICAL ROOF PLANS
M300	MECHANICAL DETAILS
M400	MECHANICAL CONTROLS DIAGRAMS

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: GROUP E

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

- 2013 BUILDING STANDARD ADMINISTRATIVE CODE PART 1. TITLE 24 C.R.R.
- 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.R.R.;
- 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.;
- 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;
- 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;
- 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.;
- 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
- 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.;
- 2013 CALIFORNIA PUBLIC SAFETY TITLE 19, C.C.R. STATE FIRE MARSHAL REGULATIONS.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

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A# 03-117117
AC______ FLS ______ SS ______
DATE 2/3/2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **M001**
SHEET TITLE:

GENERAL NOTES, LEGEND, CODES & SHEET INDEX

M29029
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

EXHAUST GRILLE AIR INLET SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	NECK SIZE (IN)	OVERALL VISIBLE DIMENSION (INxIN)	CFM RANGE	BORDER TYPE	NOTES
EG–1	TITUS–PMR	CEILING RETURN	6x6	9x9	0–130	1	STEEL PERFORATED RETURN CEILING DIFFUSER. PRIMARY USE FOR SURFACE MOUNT.
EG–2	TITUS–PMR	CEILING RETURN	8x8	12x12	131–230	1	STEEL PERFORATED RETURN CEILING DIFFUSER. PRIMARY USE FOR SURFACE MOUNT.
EG–3	TITUS–PMR	CEILING RETURN	10x10	13x13	231–350	1	STEEL PERFORATED RETURN CEILING DIFFUSER. PRIMARY USE FOR SURFACE MOUNT.

EXHAUST FAN SCHEDULE

ITEM NO.	MANUFACTURER & MODEL NO.	AREA SERVED	LOCATION	FAN TYPE	AIR QTY CFM	ESP IN H_2O	B.H.P. (W)	FAN RPM	MOTOR			SONES	DRIVE	APPROX. UNIT WT.= LBS.	DETAIL	REMARKS
									RPM	MIN. H.P.	V–ø–HZ					
EF 1	LOREN COOK 120C2B ACEB	PRESS BOX	PRESS BOX ROOF	DOWNBLAST CENTRIFUGAL	660	0.5	0.129	1153	1725	1/6	115–1–60	6.7	BELT	70	1 / M300	① ② ③ ④ ⑤ ⑥

REMARKS
- ① THERMAL OVERLOAD MOTOR
- ② BACK DRAFT DAMPER
- ③ ROOF CURB–FACTORY FURNISHED
- ④ AUTOMATIC BELT TENSIONER
- ⑤ FAN SPEED CONTROLLER
- ⑥ INTERLOCK EXHAUST FAN WITH THERMOSTAT

SYMBOL AND NOTES

MARK OR SYMBOL	MARK OR SYMBOL	MARK OR SYMBOL		APPLICABLE NOTES
☒→ ONE WAY FLOW ←☒→ TWO WAY FLOW ☒→ ↓ CORNER FLOW	←☒→ ↓ THREE WAY FLOW ↑ ←☒→ ↓ FOUR WAY FLOW ☒ CR CLG. EXHAUST AIR DEVICE	▯→ S.W.S. SIDEWALL SUPPY AIR DEVICE ▯← S.W.R./S.W.E SIDEWALL RETURN OR EXHAUST AIR DEVICE ▨ CR CLG. RETURN AIR DEVICE	COORDINATE WITH ARCHITECT PLANS FOR ALL COLORS PRIOR TO ORDERING. MODULE FACE SIZE AS INDICATED FOR ALL HARD LID, SURFACE MOUNT DEVICES FULL SIZE MODULE FACE FOR ALL LAY–IN CEILINGS. CFM'S AS INDICATED ON PLANS. PAINT ALL VISIBLE DUCTWORK BEHIND AIR DEVICES MATTE BLACK PROVIDE BOWDEN YOUNG REGULATOR FOR INACCESSIBLE CEILINGS AND AIR BALANCE THRU FACE OF AIR DEVICE FOR INACCESSIBLE CEILINGS REFER TO SPECIFICATIONS SECTION 23 3700 FOR A COMPLETE LIST OF OTHER APPROVED MANUFACTURERS AND COMPLETE DETAILS OF AIR OUTLETS AND INLETS.	① UNLESS OTHERWISE NOTED ON DRAWINGS. ② VERIFY AND PROVIDE CORRECT BORDER TYPE FOR REQUIRED APPLICATION. ③ NOISE LEVEL NOT TO EXCEED NC 25 (U.O.N.).

P:\P–2014\2014–115–00\MPE\M002.dwg Dec 01, 2016 – 4:16pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014–115–00

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DIVISION OF THE STATE ARCHITECT
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AC_____ FLS_____ SS_____
DATE 2/3/2017
FILE # 19-H10

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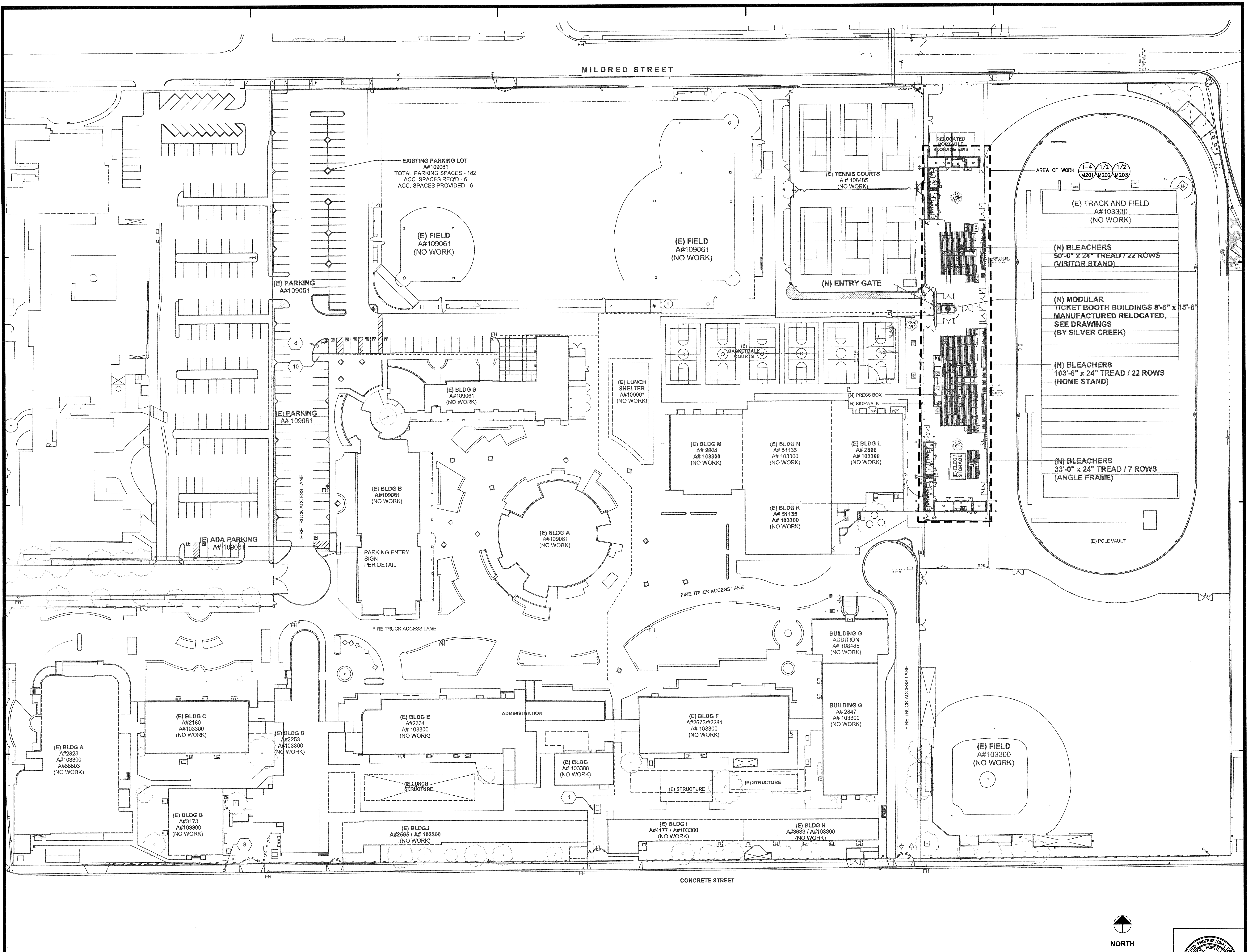
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **M002**
SHEET TITLE:

MECHANICAL EQUIPMENT SCHEDULES

NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



REGISTERED PROFESSIONAL ENGINEER
NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL
STATE OF CALIFORNIA

CAMPUS MECHANICAL SITE PLAN

SCALE:
1"=40'-0"

1

P:\P-2014\2014-115-00\MPE\M101.dwg Dec 01, 2016 - 4:16pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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REVISIONS:

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DATE ISSUED:	01-23-2017
PROJECT NO:	2014-40163
SCALE:	AS NOTED

SHEET NUMBER: **M101**

SHEET TITLE:

CAMPUS MECHANICAL SITE PLAN

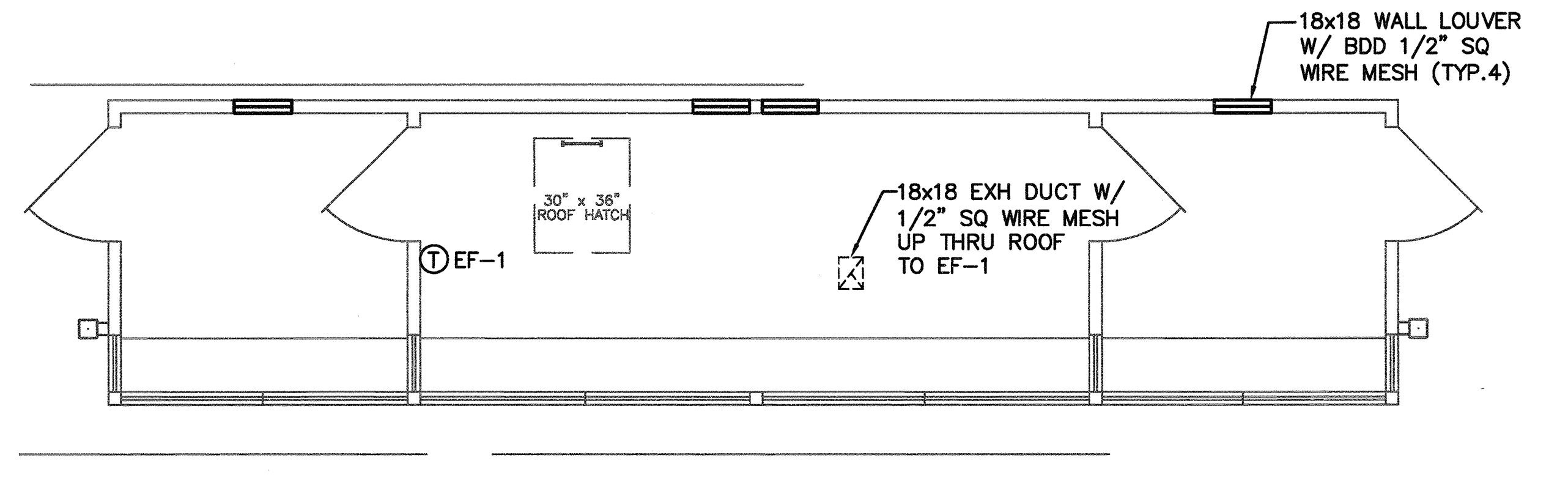
SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

GENERAL NOTES

1. COORDINATE REMODEL WORK WITH ALL RELATED DISCIPLINES INCLUDING ELECTRICAL AND PLUMBING.
2. FOR EXACT LOCATION OF ROOF OPENINGS AND FRAMING SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. FOR EXACT EQUIPMENT, PAD LOCATIONS AND SIZES SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

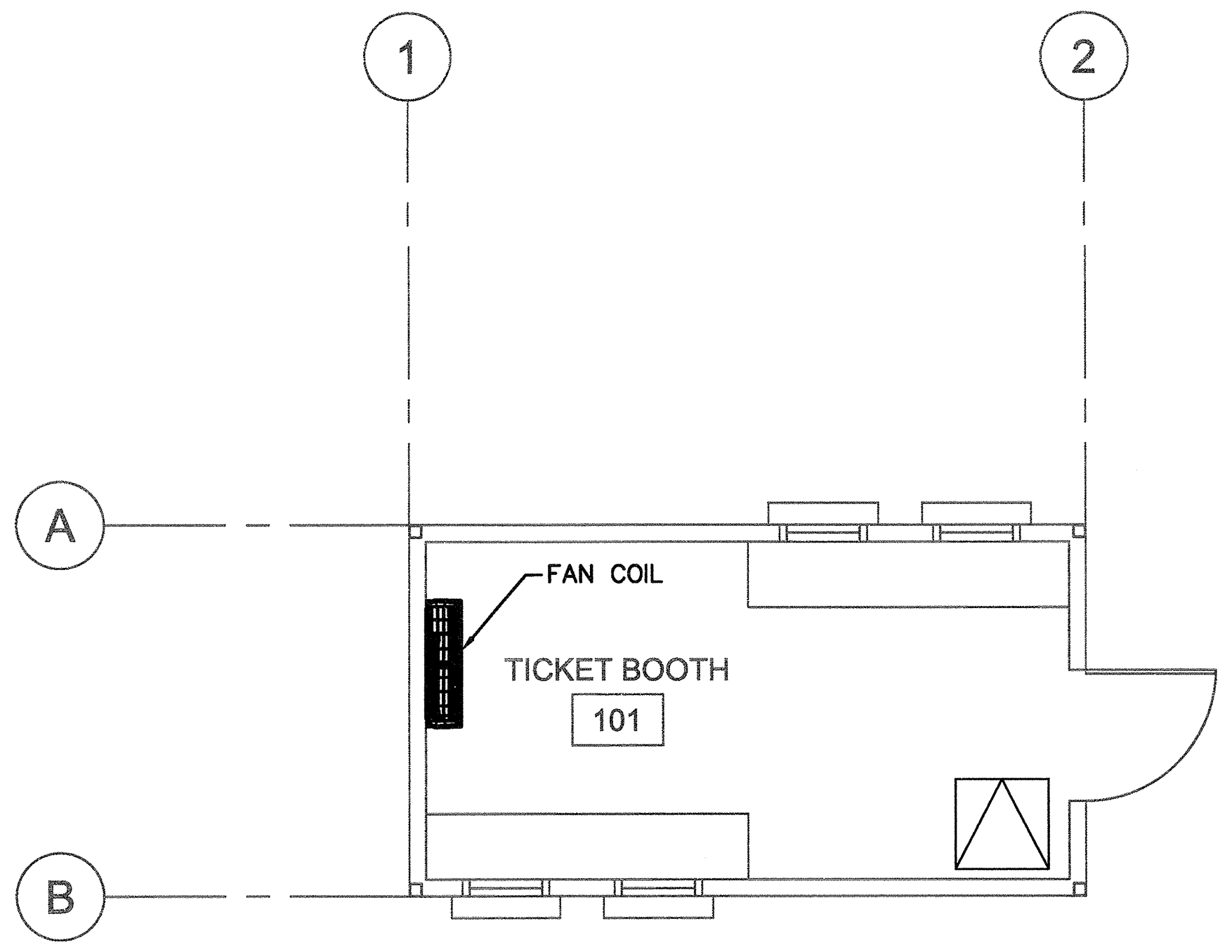
KEY NOTES

◇1 EF–1 ON ROOF, FOR MOUNTING SEE DET.1 SHT M300


18x18 WALL LOUVER W/ BDD 1/2" SQ WIRE MESH (TYP.4)
30" x 36" ROOF HATCH
18x18 EXH DUCT W/ 1/2" SQ WIRE MESH UP THRU ROOF TO EF–1
T EF–1

NORTH

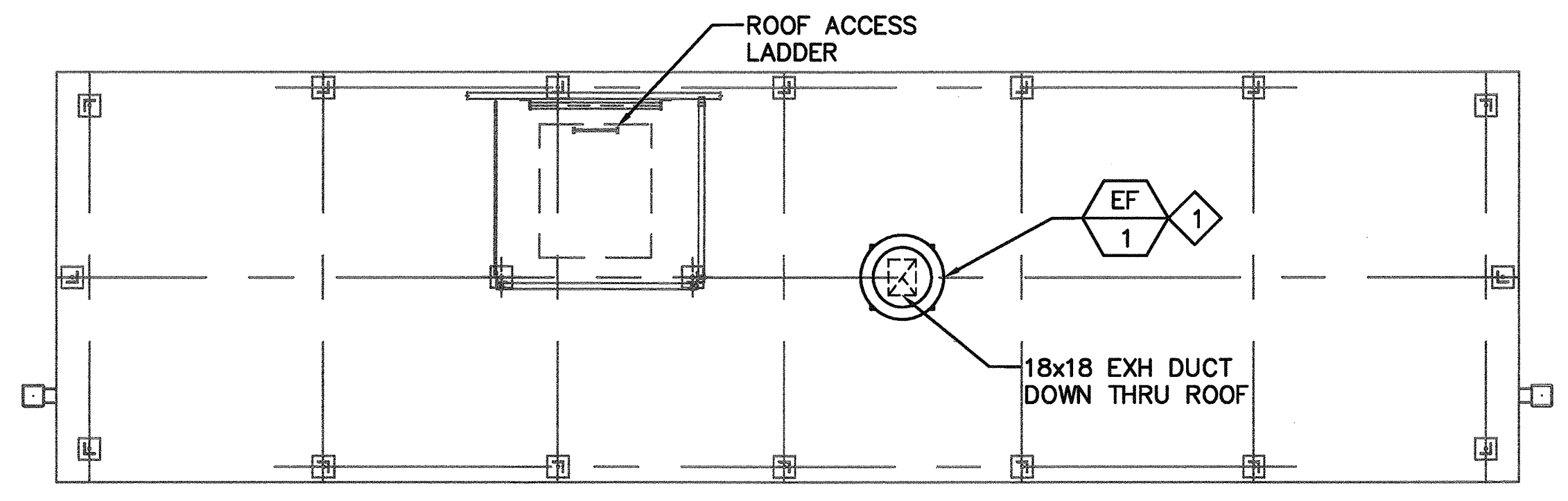
PRESS BOX FLOOR PLAN SCALE: 1/4"=1'–0" 1



HVAC EQUIPMENT LOCATION AND DETAILS, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET M-1

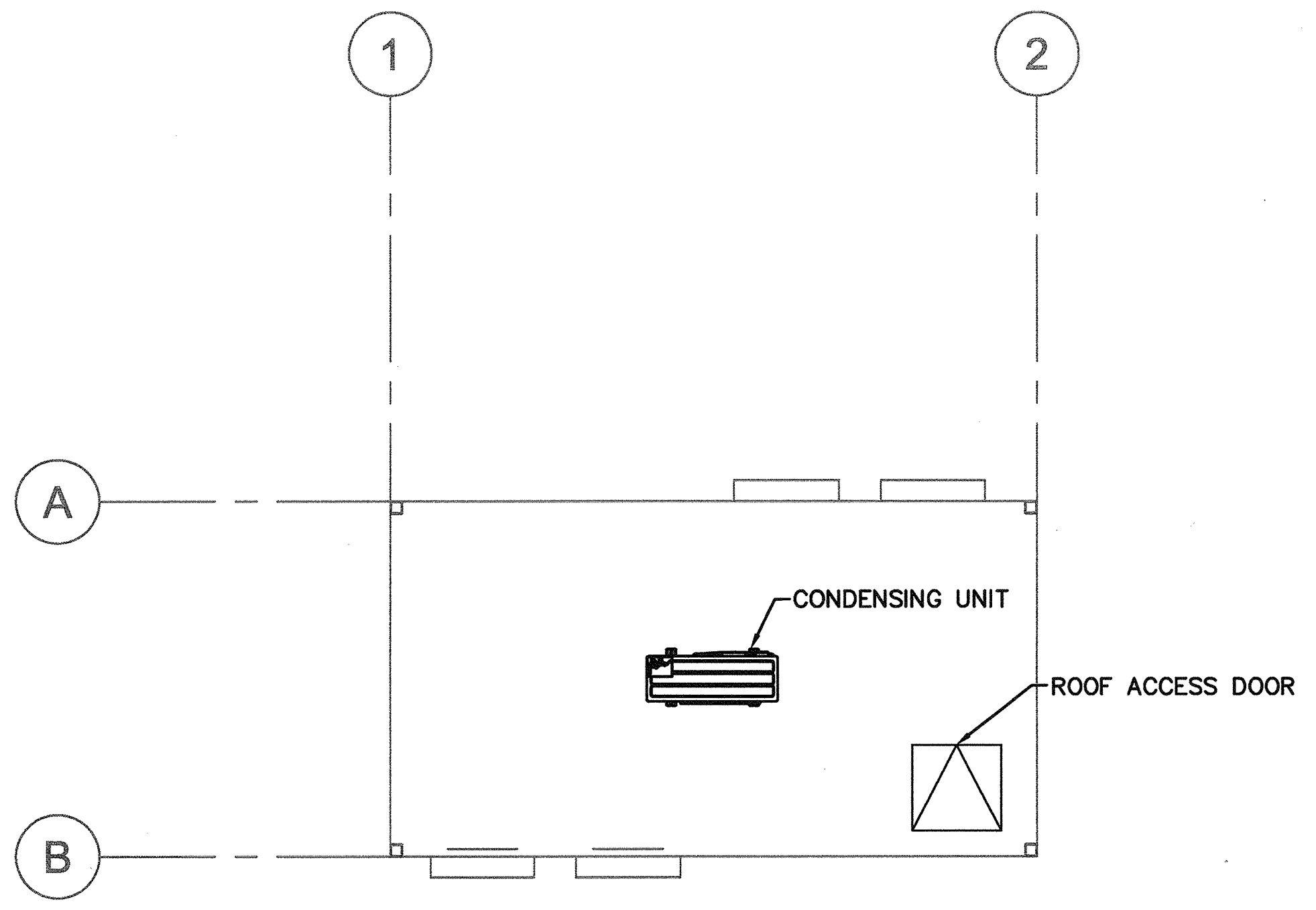
NORTH

TICKET BOOTH FLOOR PLAN SCALE: 1/4"=1'–0" 2



NORTH

PRESS BOX ROOF PLAN SCALE: 1/4"=1'–0" 3



HVAC EQUIPMENT LOCATION AND DETAILS, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET M-1

NORTH

TICKET BOOTH ROOF PLAN SCALE: 1/4"=1'–0" 4

REGISTERED PROFESSIONAL ENGINEER
NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL
STATE OF CALIFORNIA

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014–115–00

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A# 03-117117
AC / FLS SS
DATE 2/3/2017
FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS NOTED

SHEET NUMBER: **M201**
SHEET TITLE:

PRESS BOX AND TICKET BOOTH MECHANICAL PLANS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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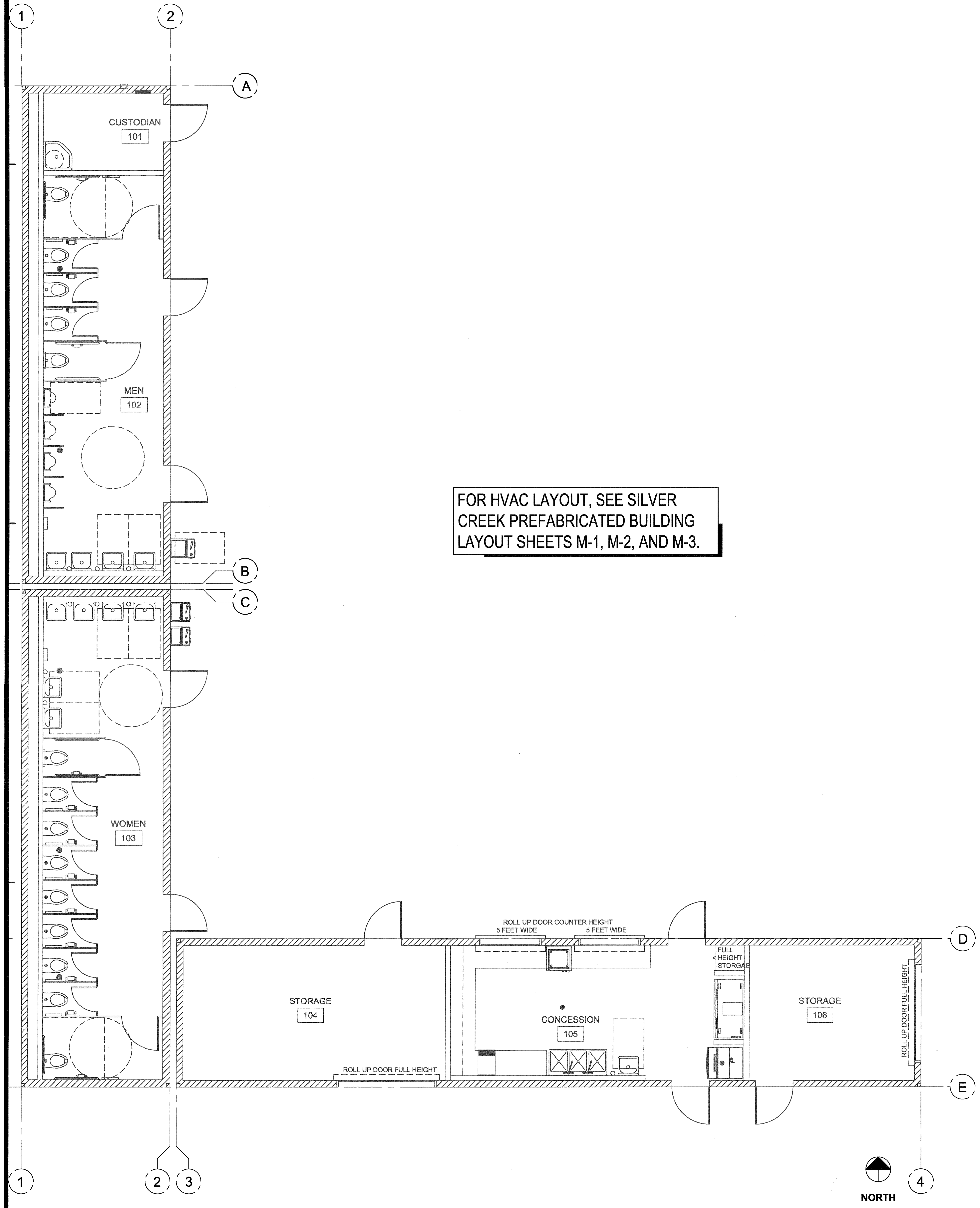
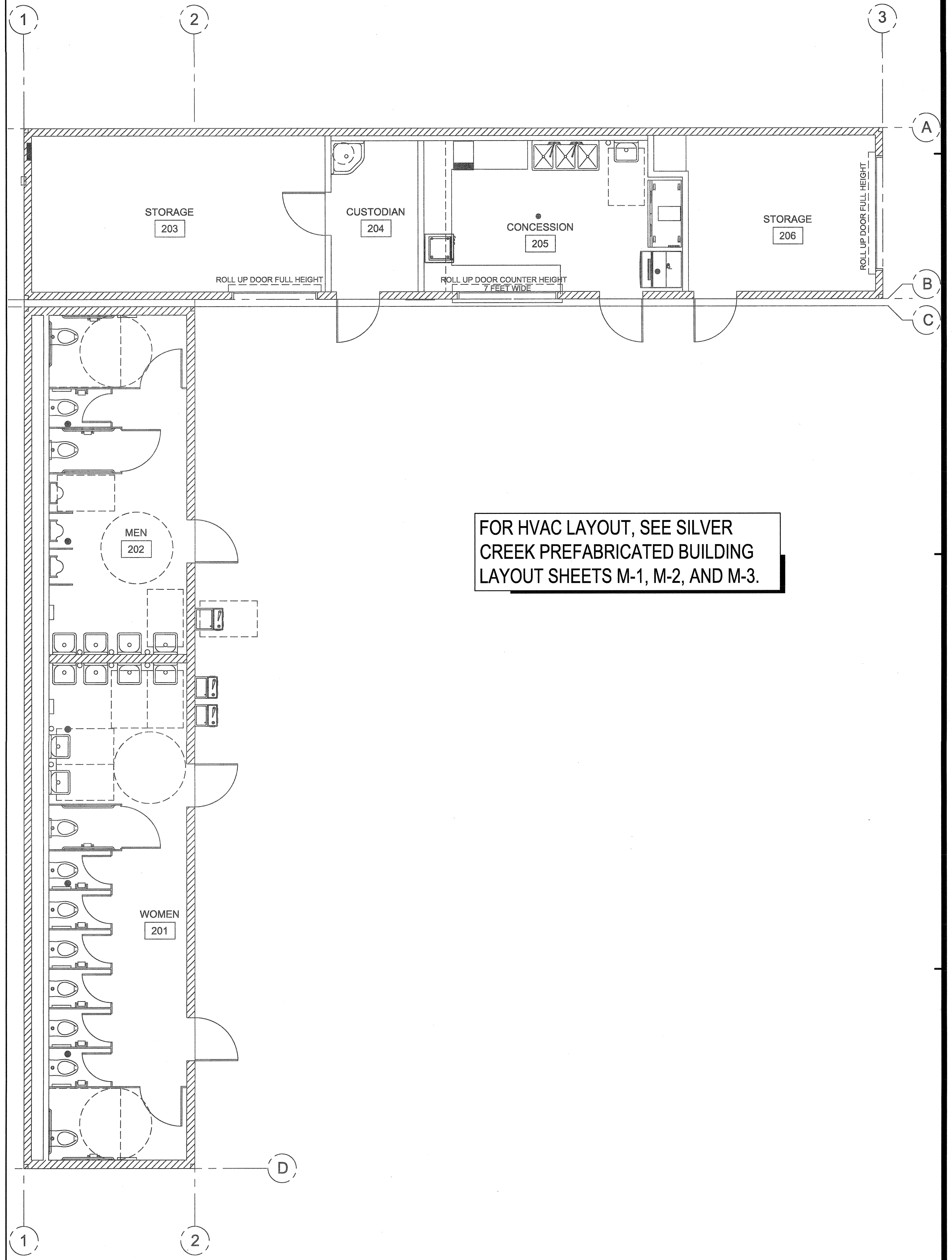


FOR HVAC LAYOUT, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEETS M-1, M-2, AND M-3.

HOME - TOILETS - CONCESSION MECHANICAL FLOOR PLAN SCALE: 1/4"=1'-0" **1**



FOR HVAC LAYOUT, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEETS M-1, M-2, AND M-3.

VISITOR - TOILETS - CONCESSION MECHANICAL FLOOR PLAN SCALE: 1/4"=1'-0" **2**

NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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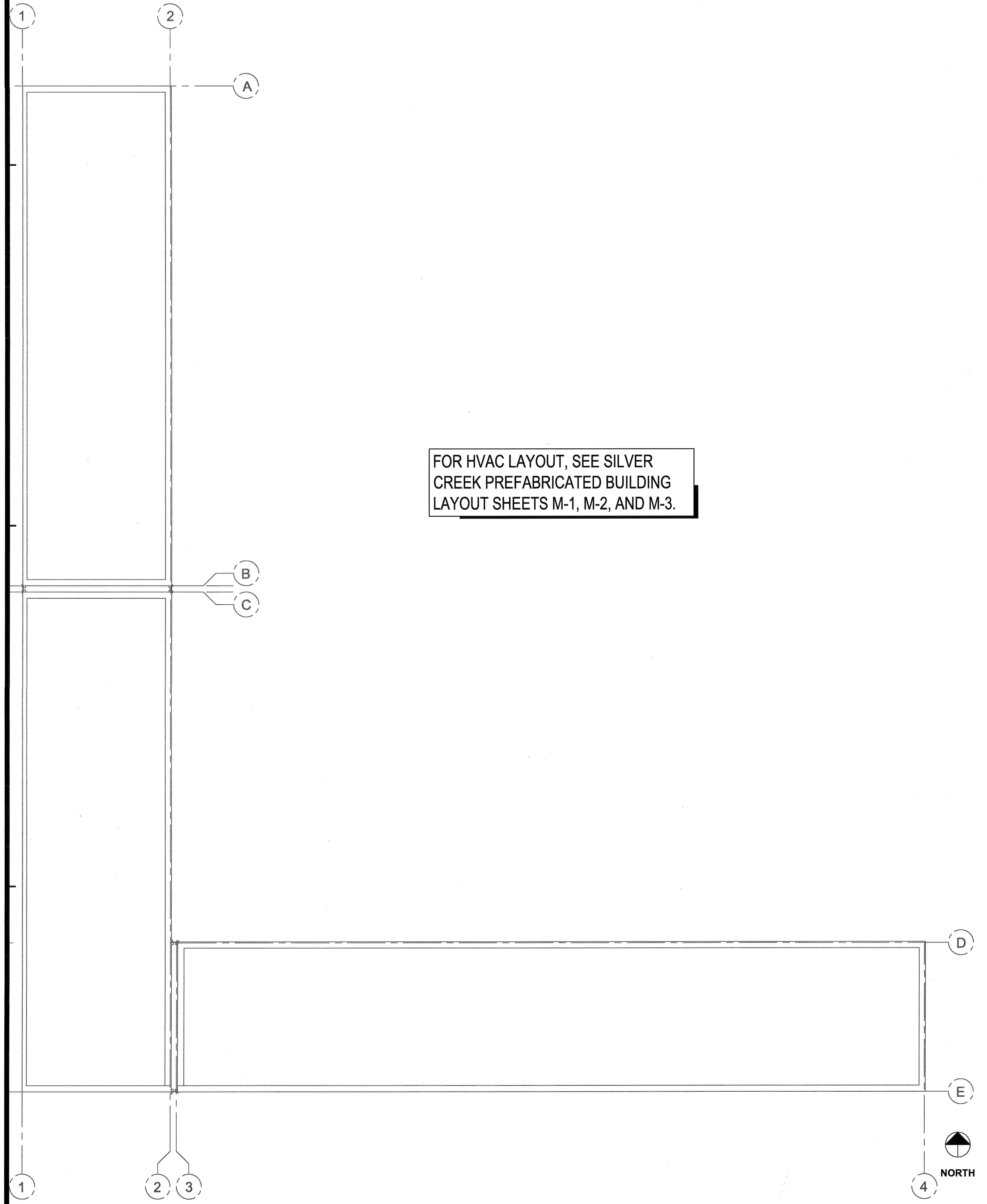
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS NOTED

SHEET NUMBER: **M202**
SHEET TITLE:

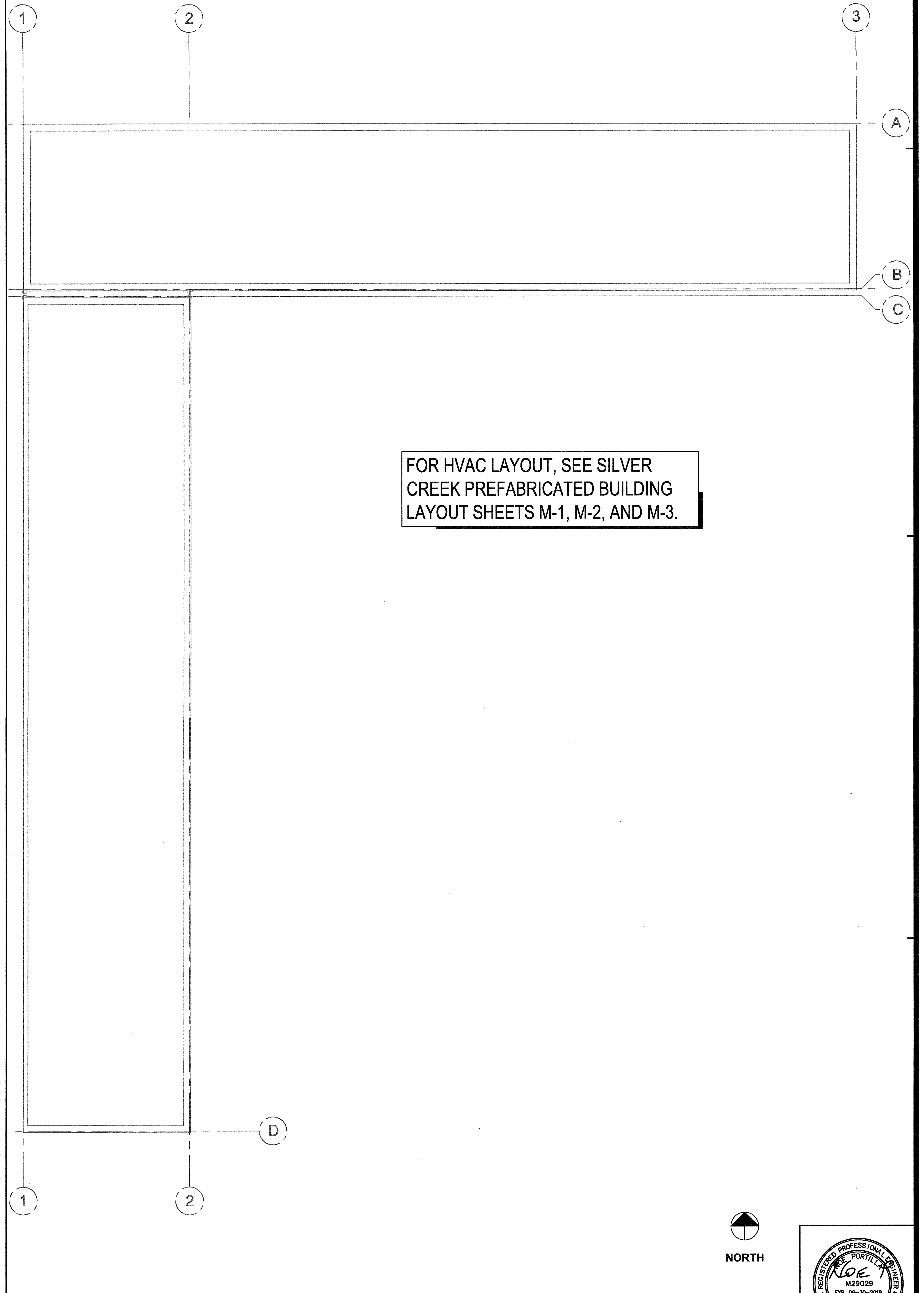
TOILET - CONCESSION MECHANICAL FLOOR PLANS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



FOR HVAC LAYOUT, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEETS M-1, M-2, AND M-3.

HOME - TOILETS - CONCESSION MECHANICAL ROOF PLAN SCALE: 1/4"=1'-0" 1



FOR HVAC LAYOUT, SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEETS M-1, M-2, AND M-3.

VISITOR - TOILETS - CONCESSION MECHANICAL ROOF PLAN SCALE: 1/4"=1'-0" 2

NOE PORTILLO
M29029
EXP. 06-30-2018
MECHANICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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SHEET NUMBER: **M203**
SHEET TITLE:

TOILET - CONCESSION MECHANICAL ROOF PLANS

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NOT IN USE NOT TO SCALE 7

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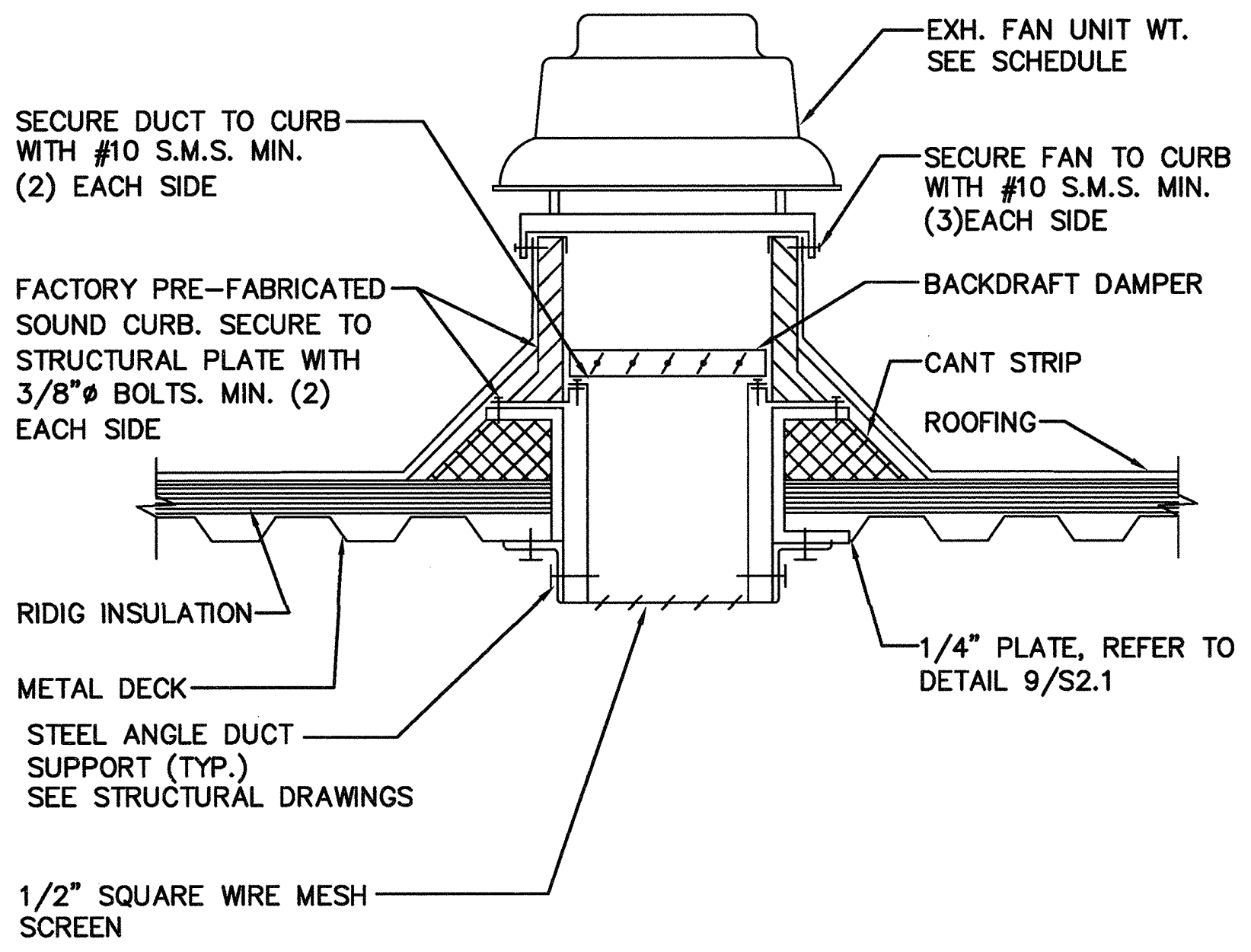
EXH. FAN UNIT WT. SEE SCHEDULE
SECURE DUCT TO CURB WITH #10 S.M.S. MIN. (2) EACH SIDE
SECURE FAN TO CURB WITH #10 S.M.S. MIN. (3)EACH SIDE
FACTORY PRE-FABRICATED SOUND CURB. SECURE TO STRUCTURAL PLATE WITH 3/8"ø BOLTS. MIN. (2) EACH SIDE
BACKDRAFT DAMPER
CANT STRIP
ROOFING
RIDIG INSULATION
METAL DECK
STEEL ANGLE DUCT SUPPORT (TYP.) SEE STRUCTURAL DRAWINGS
1/4" PLATE, REFER TO DETAIL 9/S2.1
1/2" SQUARE WIRE MESH SCREEN

ROOF MOUNTED EXHAUST FAN DETAIL NOT TO SCALE 1

NOT IN USE NOT TO SCALE 8

NOT IN USE NOT TO SCALE 5

NOT IN USE NOT TO SCALE 2

NOT IN USE NOT TO SCALE 9

NOT IN USE NOT TO SCALE 6

NOE PORTILLA
M29029
EXP. 06-30-2018

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **M300**
SHEET TITLE:

MECHANICAL DETAILS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

NOT IN USE NOT TO SCALE 7

NOT IN USE NOT TO SCALE 4

⬚ - - - -	ALL LINE VOLTAGE CONDUIT, WIRING, AND EQUIPMENT SHOWN DASHED SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
☐ ——	ALL LOW VOLTAGE WIRING SHALL BE FURNISHED AND INSTALLED BY THE LOW VOLTAGE CONTROLS CONTRACTOR. VERIFY THE EXACT REQUIREMENT WITH THE EQUIPMENT MANUFACTURER.
DISC	DISCONNECT SWITCHES AND MAGNETIC STARTERS WITH H-O-A, 120V CONTROL TRANSFORMER, AND AUXILIARY CONTACTS INCLUDING RELAYS SHALL BE FURNISHED & INSTALLED BY THE ELECT. DIVISION.
☐	MECHANICAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY MECHANICAL DIVISION.
Ⓜ	EQUIPMENT MOTOR – REFER TO EQUIPMENT SCHEDULE FOR HP.
SD	DUCT MOUNTED SMOKE DETECTOR – MOUNTED ON DUCKWORK BY DIVISION 23 – MECH. AND FURNISHED, INSTALLED AND WIRED BY DIVISION 26 – ELECTRICAL.
BT	"MARK TIME" 0-4 HOUR TIME SWITCH FURNISHED AND INSTALLED BY EQUIPMENT MANUFACTURER.
Ⓣ	THERMOSTAT OR SPACE TEMPERATURE SENSOR BY CONTROLS CONTRACTOR
FDS	EQUIPMENT FUSED DISCONNECT SWITCH – FIELD MOUNTED.
CB	CIRCUIT BRAKER BY ELECTRICAL.
TM	ELECTRONIC TEMPERATURE WALL MODULE.

NOTES:

① ALL LOW VOLTAGE WIRING (24 VAC.) SHALL COMPLY WITH CLASS 2 WIRING CODE. THE MINIMUM LOW VOLTAGE WIRING CONDUCTOR SIZE SHALL BE 16 AWG COPPER. ALL CONDUCTOR QUANTITIES SHALL BE COORDINATED WITH THE EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. COORDINATION OF ALL LOW VOLTAGE EQUIPMENT WIRING SHALL BE THE RESPONSIBILITY OF THE LOW VOLTAGE CONTROLS CONTRACTOR.

② ALL LOW VOLTAGE CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. VERIFY THE EXACT REQUIREMENT WITH THE EQUIPMENT MANUFACTURER.

WIRING LEGEND

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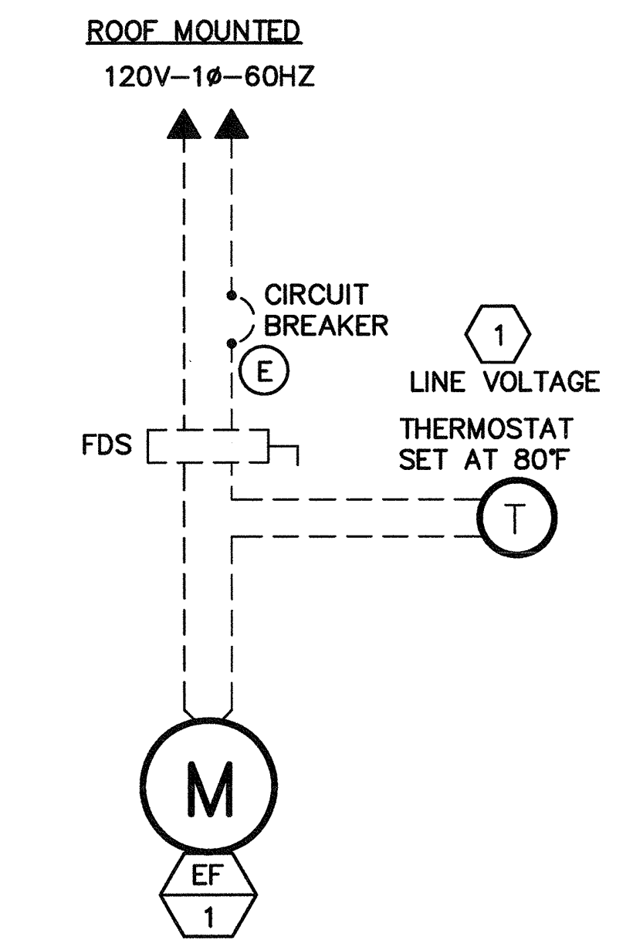
NOT IN USE NOT TO SCALE 5



DETAIL NOTES:

1 INTERLOCK EXHAUST FAN TO WALL MOUNTED THERMOSTAT, OR TEMPERATURE SENSOR.

EXHAUST FAN WIRING DIAGRAM

NOT TO SCALE 2

NOT IN USE NOT TO SCALE 9

NOT IN USE NOT TO SCALE 6

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M29029
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **M400**

SHEET TITLE:

MECHANICAL CONTROL DIAGRAMS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

PLUMBING FIXTURE SCHEDULE

		ROUGH-IN CONNECTIONS					
SYMBOL	DESCRIPTION	WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
							FOR THE PLUMBING FIXTURE SCHEDULE SEE SILVER CREEK MODULAR TOILET AND CONCESSION BUILDING DRAWING P-2.01.

NOTE: ALL DOMESTIC WATER PIPING , FITTINGS AND FAUCETS TO BE LEAD-FREE PER AB 1953.

PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
WH-1	FOR THE PLUMBING WH-1 SEE SILVER CREEK MODULAR TOILET AND CONCESSION BUILDING DRAWING P-2.01.
WH-2	FOR THE PLUMBING WH-2 SEE SILVER CREEK MODULAR TOILET AND CONCESSION BUILDING DRAWING P-2.01.
BFP 1	REDUCED PRESSURE PRINCIPLE ASSEMBLY. 3" WILKINS MODEL # 475.
BP 1	BOOSTER PUMP: ARMSTRONG DESIGN ENVELOPE PACKAGE BOOSTER SYSTEM, NUMBER N230402-IVS-3HP, DUPLEX, 115 GPM AT 22.0 PSI HEAD. THE DESIGN ENVELOPE SHALL ALSO BE CAPABLE OF SUPPLYING 115 US GPM AT 67 PSI HEAD AT 66% MINIMUM EFFICIENCY LEVEL. EACH VERTICAL MULTISTAGE (VMS) PUMP, SHALL BE SUPPLIED WITH A 3 HP, ODP, 460V/3/60, NEMA PREMIUM EFFICIENCY MOTOR AND AN ARMSTRONG UL TYPE-12 ENCLOSURE VARIABLE SPEED DRIVE. INSTALL AS PER MANUFACTURES RECOMENDATION.

PIPE MATERIAL TABLE

SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC HOT AND COLD WATER SYSTEM	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88, TYPE K BELOW GROUND	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16 , 18	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER. ALL EXPOSED WATER PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED.
SOIL, WASTE, AND VENT.	STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL PIPE, TYLER WIDE BODY OR EQUAL	STANDARD WEIGHT CAST IRON NO-HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO-HUB	NSF LISTED
CONDENSATE DRAINS	SEAMLESS COPPER TUBING, TYPE M HARD DRAWN TEMPER, ASTM B88	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16, 18 JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER.	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER. INSULATED
NATURAL GAS	STEEL PIPE ASTM A53/A 53M BLACK STEEL SCHEDULE 40 TYPE E OR S GRADE B	MALLEABLE IRON THREADED FITTINGS ASTM B16.3, CLASS 150 STANDARD PATTERN	–

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING LINES, LATERALS AND WYES BEFORE STARTING. SHOULD IT BE NECESSARY TO REROUTE LINES DUE TO CONDITIONS FOUND ON THE SITE OR IF NDICATED P.O.C. CANNOT BE MADE TO THE LINES AS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE INSTALLING ANY WORK WHICH MAY BE AFFECTED.
2. OFFSET PIPES AS REQUIRED TO CLEAR MECHANICAL DUCTWORK.
3. FURNISH AND INSTALL A SHUT-OFF VALVE, PLUG COCK OR STOP AT EACH PIECE OF EQUIPMENT FURNISHED BY OTHERS REQUIRING DRAIN, WASTE, WATER, GAS, ETC.
4. SEAL AND FLASH ALL PENETRATIONS THROUGH ROOF WATERTIGHT.
5. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF ALL A.C. UNITS.
6. UNLESS OTHERWISE NOTED, ALL CONDENSATE AND GAS DROPS SHALL BE CONCEALED IN WALLS.
7. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. THE CONTRACTOR SHALL LOCATE ALL OFFSETS, BENDS, AND SPECIAL FITTINGS TO SUIT JOB SITE CONDITIONS. THEREFORE THE CONTRACTOR SHALL MAKE HIMSELF FULLY AWARE OF ALL EXISTING CONDITIONS AND LOCATE ALL REQUIRED SPECIAL FITTINGS TO SUIT EXISTING CONDITIONS.
8. THIS CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT. HE SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND ALL JOB CONDITIONS.
9. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENT AGENCIES.
10. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
11. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
12. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF MECHANICAL EQUIPMENT MATERIAL ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATION TO ENSURE COMPLETE AND OPERABLE SYSTEMS.
13. ALL PIPING INSULATION AND SEALING MATERIALS SHALL HAVE FLAME SPREAD RATING NOT EXCEEDING 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50.
14. BEFORE ORDERING ANY PIECE OF EQUIPMENT, THE CONTRACTOR SHALL PROVIDE EQUIPMENT SUBMITTALS, AND SHOP DRAWINGS WITH EQUIPMENT DIMENSIONS, AND SITE CLEARANCE AVAILABLE. WHERE REQUIRED BY SPACE LIMITATIONS HAVE UNITS SHIPPED IN SECTIONS.
15. SANITARY VENTS THRU ROOF TO BE 10'-0" FROM ANY AND ALL FRESH AIR INTAKES, FAN DISCHARGE OR HEATING EQUIPMENT.
16. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL PLUMBING FIXTURES.
17. ALL SINKS , LAVATORY AND URINALS TO HAVE WALL CLEAN-OUTS.
18. VERIFY ALL FIXTURE HEIGHTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS.
19. ALL HANDICAP ACCESSIBLE PLUMBING FIXTURES SHALL MEET ADA REQUIREMENTS.
20. ALL PIPE BRANCH CONNECTIONS SHALL OFF-SET. NO "BULL HEAD" CONNECTIONS WILL BE ALLOWED.
21. INSTALL WATER HAMMER ARRESTORS IN THE HOT AND COLD WATER SUPPLY TO EACH FIXTURE OR IN THE HEADER SUPPLY TO A BATTERY OF FIXTURES SIZED PER PDI STANDARD WH-201.
22. ALL EXISTING PLUMBING LINES SHOWN ARE TAKEN FROM EXISTING DRAWINGS WHICH INDICATE APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS TO INCLUDE IN HIS BID TO PERFORM FIELD INVESTIGATION TO PIN POINT THE EXACT LOCATION AS REQUIRED FOR DEMOLITION OR MAKING NEW CONNECTION.
23. INTERRUPTION OF EXISTING SERVICES: THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF EXISTING, CONDUIT, PIPING, ETC. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGE BY HIM OR HIS CAUSED WORK TO EXISTING BUILDINGS, CONDUIT, PIPING, PLANTS, ETC. NEW WORK AND INSTALLATIONS SHALL BE MADE WITH MINIMAL INTERRUPTIONS OF SERVICES TO EXISTING BUILDINGS ANY INTERRUPTIONS REQUIRED SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO THE OWNER, AND AT TIMES AS APPROVED IN ADVANCE BY THE ARCHITECT. NEW WORK AND INSTALLATIONS SHALL NOT IMPAIR THE PROPER FUNCTIONING OF THE EXISTING FACILITY. THE COMPLETED PROJECT SHALL BE A PROPERLY FUNCTIONING ENTITY THROUGHOUT. FURNISH ALL LABOR AND MATERIALS REQUIRED TO RELOCATE, REMOVE, REINSTALL, RECONNECT, REPLACE, ETC., ANY EXISTING PIPING TO ACCOMMODATE THE WORK. MATERIALS SHALL BE AS SPECIFIED UNLESS OTHERWISE APPROVED I IN WRITTING BY THE ARCHITECT. CONTRACTOR SHALL INCLUDE IN HIS BID ANY EXTRA WORK REQUIRED TO MINIMIZE SHUTDOWN TIME.
24. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
25. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF A.D.A. FIXTURES AND ADJUST ROUGH-INS ACCORDINGLY.
26. CONTRACTOR SHALL SAWCUT EXISTING WALL AND FLOOR AS REQUIRED TO INSTALL WASTE, VENT AND WATER PIPING. PATCH WALL, FLOOR AND CEILING TO MATCH EXISTING.
27. UNDERGROUND PIPING AS PER STRUCTURAL DETAILS.
28. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTION 1616A.1.8 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 6 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING , DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVED (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: GROUP E

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

	CODE
2013	CALIFORNIA ADMINISTRATIVE CODE (CAC) Part 1, Title 24, California Code of Regulations (CCR)
2013	CALIFORNIA BUILDING CODE (CBC) Part 2, Title 24, CCR (Based on the 2012 International Building Code (IBC)
2013	CALIFORNIA ELECTRICAL CODE (CEC) Part 3, Title 24, CCR (Based on the 2011 National Electrical Code (NEC))
2013	CALIFORNIA MECHANICAL CODE (CMC) Part 4, Title 24, CCR (Based on the 2012 Uniform Mechanical Code (UMC)
2013	CALIFORNIA PLUMBING CODE (CPC) Part 5, Title 24, CCR (Based on the 2012 Uniform Plumbing Code (UPC)
2013	CALIFORNIA FIRE CODE (CFC) Part 9, Title 24, CCR (Based on the 2012 International Fire Code (IFC))
2013	CALIFORNIA GREEN BUILDING STANDARD CODE (CALGreen) CCR, Title 24, Part 11
2013	CALIFORNIA REFERENCED STANDARDS CODE CCR, Title 24, Part 12
2014	CALIFORNIA PUBLIC SAFETY CCR, Title 19, Division 1–State Fire Marshall

WATER PRESSURE CALCULATIONS

PRESSURE PRESSURE: MAXIMUM 60 PSI, MINIMUM 40 PSI.
WATER METER SIZE: 4", DEMAND: 300 FU AT 115 GPM.
PRESSURE REDUCING VALV SIZE: N/A, BACKFLOW PREVENTER SIZE: 4"
PRV SET FOR: N/A PSI. PIPE MATERIAL: TYPE "L" COPPER.

ITEM #	SYSTEM LOSSES
1. STATIC LOSS 10' x 0.433	4.3 PSI
2. METER LOSS	3.0 PSI
3. PRV LOSS	N/A PSI
4. BACKFLOW PREVENTER	12 PSI
5. RESIDUAL PRESSURE REQUIRED	25 PSI
6. SUB-TOTAL LOSSES PSI (ABOVE) ITEM 1-5	48.7 PSI
7. MINIMUM WATER PRESSURE AVAILABLE	40 PSI
8. PRESSURE AVAILABLE FOR FRICTION ITEM #7-ITEM #6	-4.3 PSI
9. DEVELOPED LENGTH= ACTUAL SIZE x 1.25= 603' x 1.25=	755'
10. PRESSURE DROP AT 6 PSI/100' PSI= (6 PSI/100')(755')=	-45.3
11. PRESSURE AVAILABLE ITEM #8 + #10	-49.6 PSI
12. BOOSTER PUMP PRESSURE: H=PSI/ 0.43= 49.6 PSI/ 0.43= 51 FT HEAD	49.6 PSI OR 115 FT HEAD

COLD WATER PIPE SIZING IS BASED ON UPON A MAXIMUM VELOCITY OF (8) FEET PER SECOND WITH MAXIMUM PRESSURE LOSS OF 6 PSI/100'. HOT WATER SIZING IS BASED UPON A MAXIMUM VELOCITY OF (5) FEET PER SECOND.

WATER PIPE SIZING TABLE

6 PSI/100'

	FIXTURE UNITS		
NOMINAL PIPE SIZE	HOT WATER	COLD WATER FLUSH TANK	COLD WATER FLUSH VALVE
	5 ft/sec	8 ft/sec	8 ft/sec
1/2"	2	2	0
3/4"	8	8	0
1"	16	20	0
1 1/4"	28	42	8
1 1/2"	46	83	26
2"	119	254	132
2 1/2"	245	455	329
3"	406	719	666
3 1/2"	585	1091	1091
4"	840	1668	1668

SHEET INDEX

SHT.NO.	DESCRIPTION
P001	GENERAL NOTES, LEGEND, CODES, CALCULATIONS, SCHEDULES & SHEET INDEX
P101	CAMPUS – PLUMBING SITE PLAN
P101C	ENLARGED PLUMBING SITE PLAN
P101D	ENLARGED PLUMBING SITE PLAN
P201	HOME AND VISITOR'S BLEACHERS PLUMBING PLAN
P202	VISITOR TOILETS – CONCESSION PLUMBING FLOOR PLAN
P203	HOME TOILETS – CONCESSION PLUMBING FLOOR PLAN
P301	PLUMBING DETAILS

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
——— – ———	C.W.	COLD WATER
——— – – ———	H.W.	HOT WATER
——— – – – ———	H.W.R.	HOT WATER RETURN
——CD——	C.D.	CONDENSATE DRAIN
━ ━ ━ ━ ━	W OR S	WASTE OR SEWER
– – – – – – – –	V	SANITARY VENT
——⋈——	S.O.V.	SHUT OFF VALVE
○—— —○——		PIPE-UP OR RISER
◠—— —○——		PIPE-DOWN OR DROP
——‖——		UNION
◫	COTG/YB	CLEANOUT TO GRADE IN YARD BOX
◐	POC	POINT OF CONNECTION
	W/	WITH
	CONC.	CONCRETE
	F.C.O.	FLOOR CLEANOUT
	N.T.S.	NOT TO SCALE
	CONT.	CONTINUATION
	FIN.	FINISH
	F.F.E.	FINISH FLOOR ELEVATION
	FLR.	FLOOR
	GR.	GRADE
	LOC.	LOCATION
	ABV.	ABOVE
	BEL.	BELOW
	C.I.	CAST IRON
	CLG.	CEILING
	CONN.	CONNECT OR CONNECTION
	TYP.	TYPICAL
	(E) OR EXIST	EXISTING
XX X		PLUMBING EQUIPMENT IDENTIFICATION
X X-X		FIXTURE EQUIPMENT IDENTIFICATION
——◠	W.C.O.	WALL CLEANOUT
	Y.B.	YARD BOX
◇		KEY NOTE

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

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AC FLS SS
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FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **P001**
SHEET TITLE:

GENERAL NOTES, LEGEND, CODES, SCHEDULES, CALCULATIONS & SHEET INDEX

REGISTERED PROFESSIONAL ENGINEER
NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL
STATE OF CALIFORNIA

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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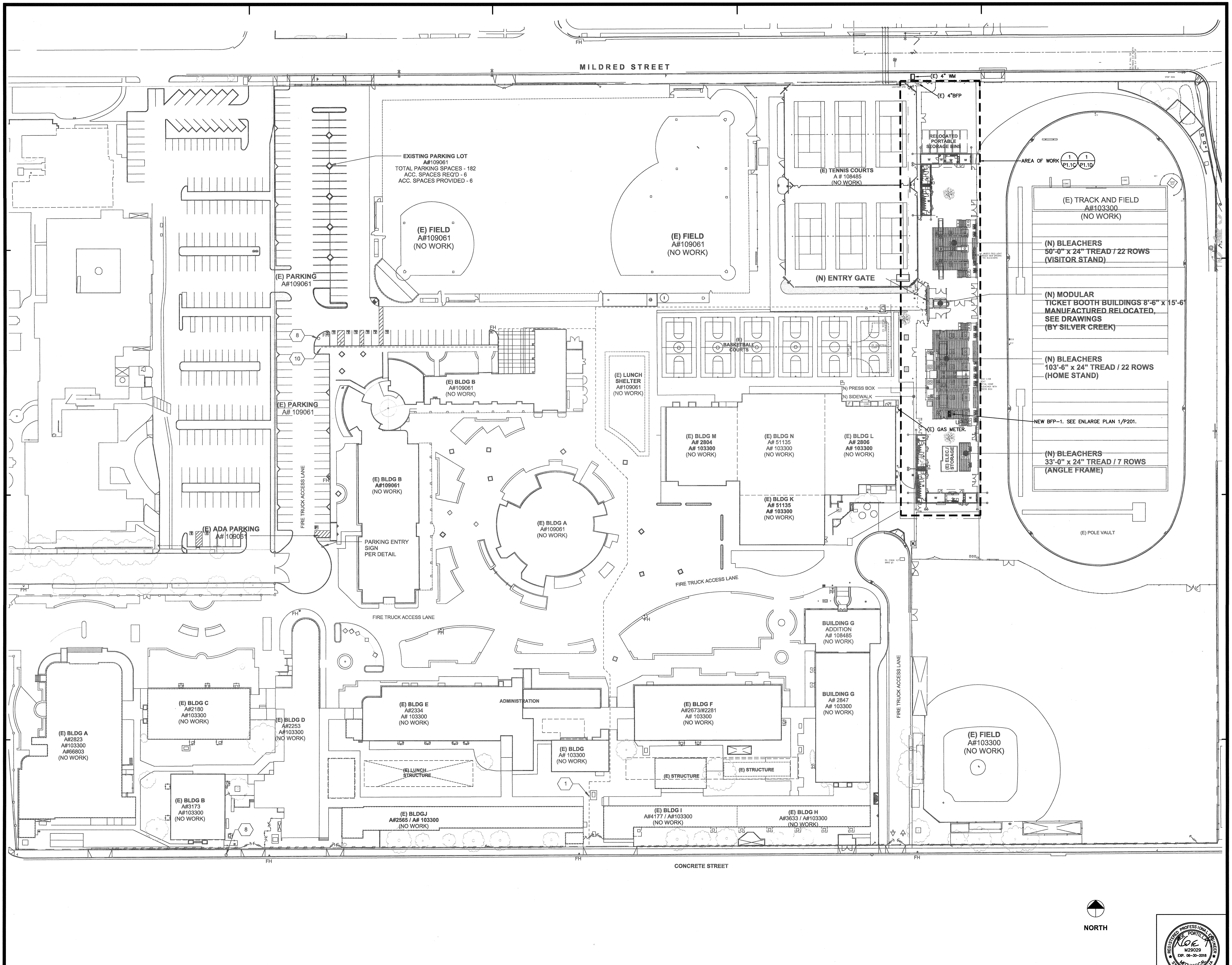

REGISTERED PROFESSIONAL ENGINEER
M29029
EXP. 06-30-2018
STATE OF CALIFORNIA

CAMPUS PLUMBING SITE PLAN

SCALE: 1"=40'-0"

1

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **P101**
SHEET TITLE:

CAMPUS PLUMBING SITE PLAN

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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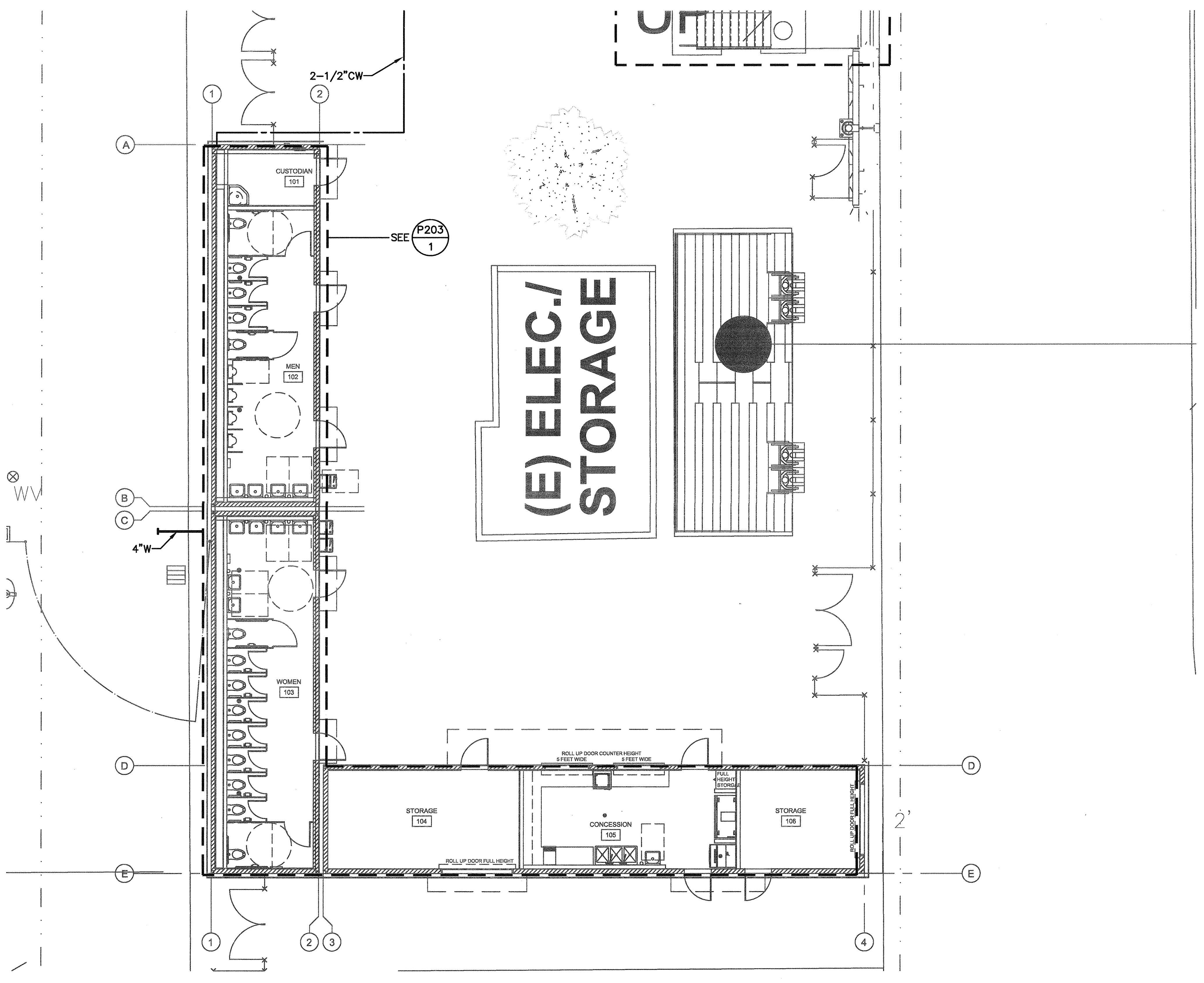
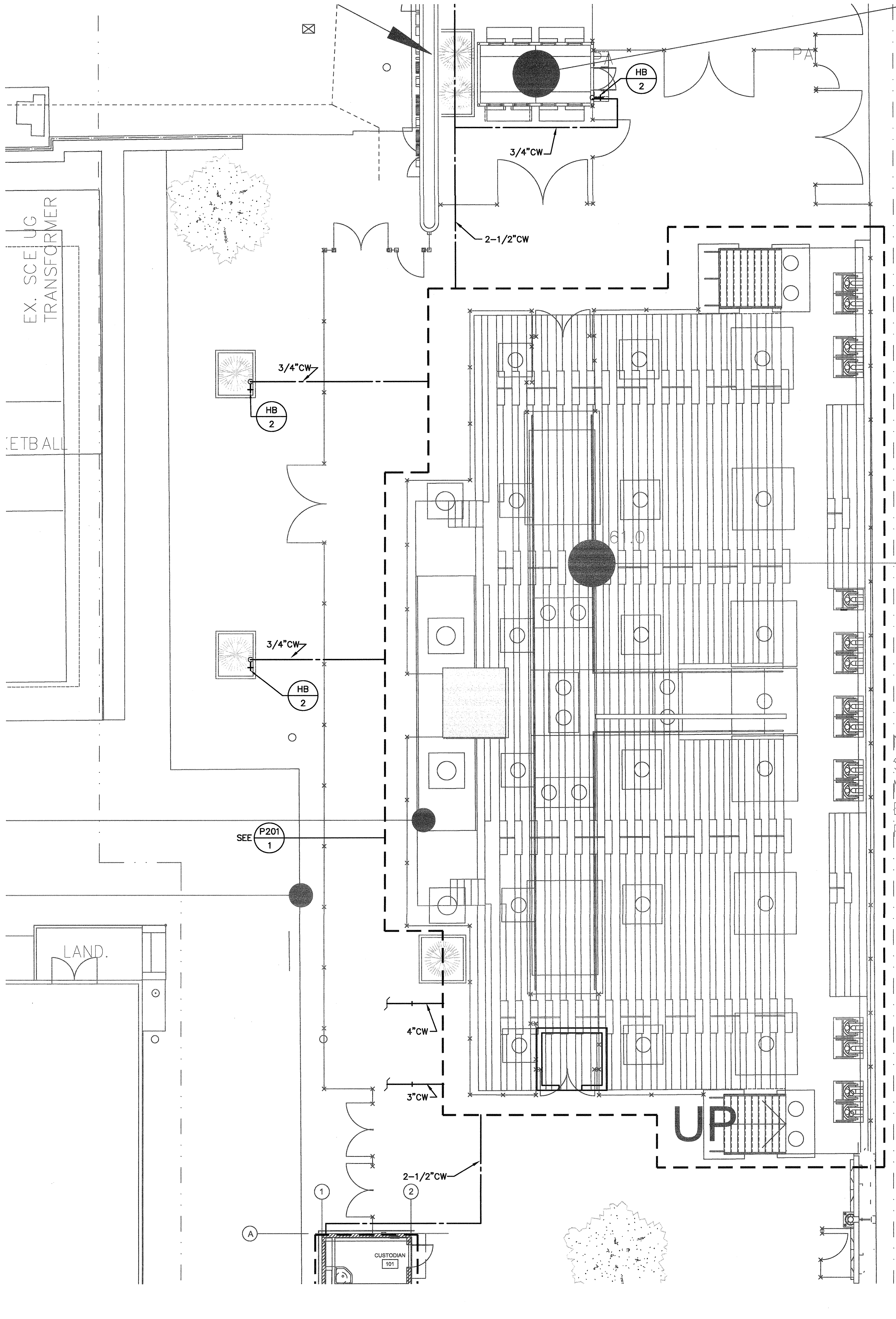


ENLARGED PLUMBING SITE PLAN

SCALE: 1/8"=1'-0" 2



ENLARGED PLUMBING SITE PLAN

SCALE: 1/8"=1'-0" 1

M29029
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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SHEET NUMBER: **P101c**

SHEET TITLE:

ENLARGED PLUMBING SITE PLAN

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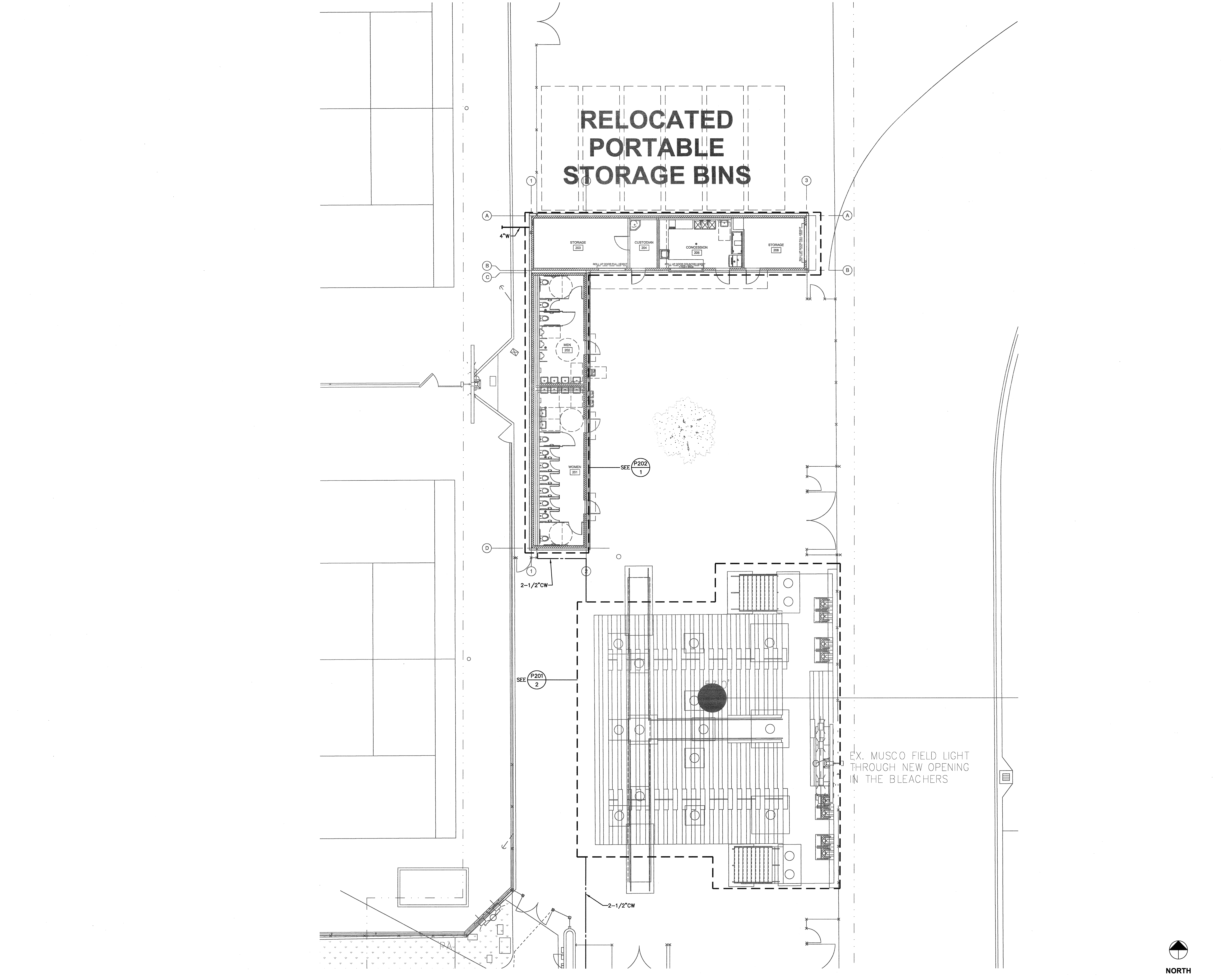

ENLARGED PLUMBING SITE PLAN

SCALE: 1/8"=1'-0"

1

Registered Professional Engineer
Noe Portillo
M29029
EXP. 06-30-2018
Mechanical
State of California

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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2100 East Route 66, Suite 101 Glendora, CA 91740
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: P101d
SHEET TITLE:

ENLARGED PLUMBING SITE PLAN

SVA ARCHITECTS
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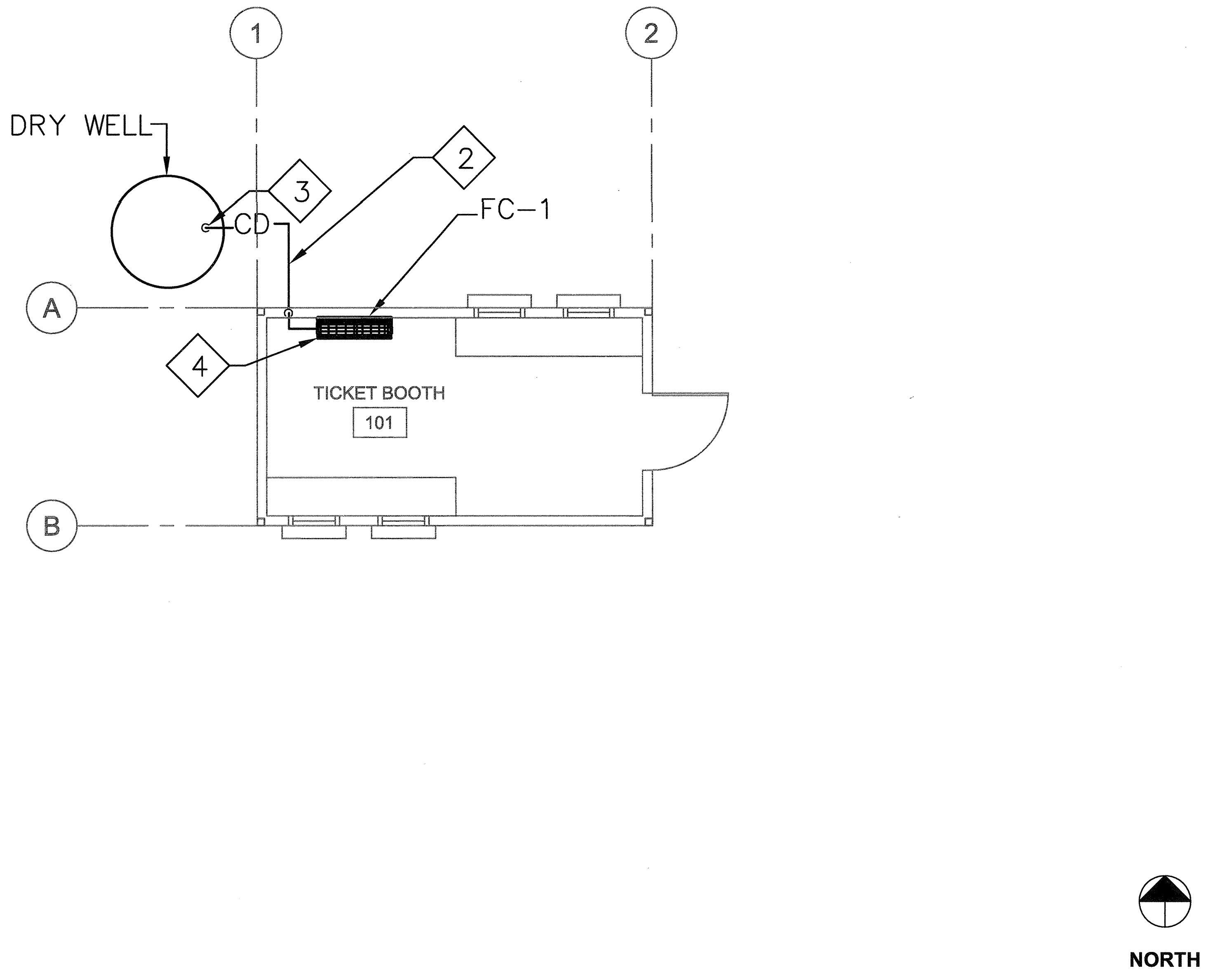
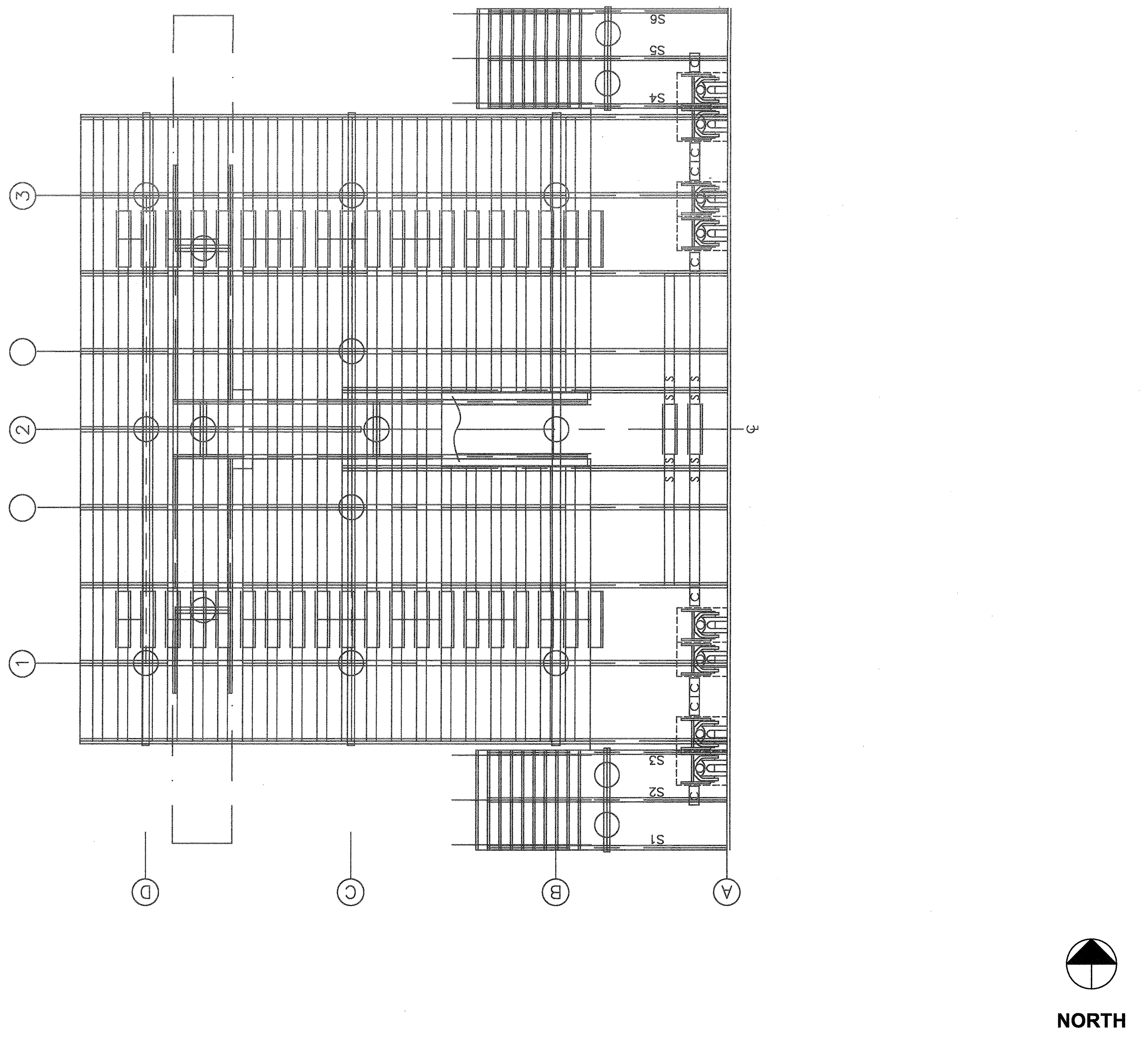
KEY NOTES

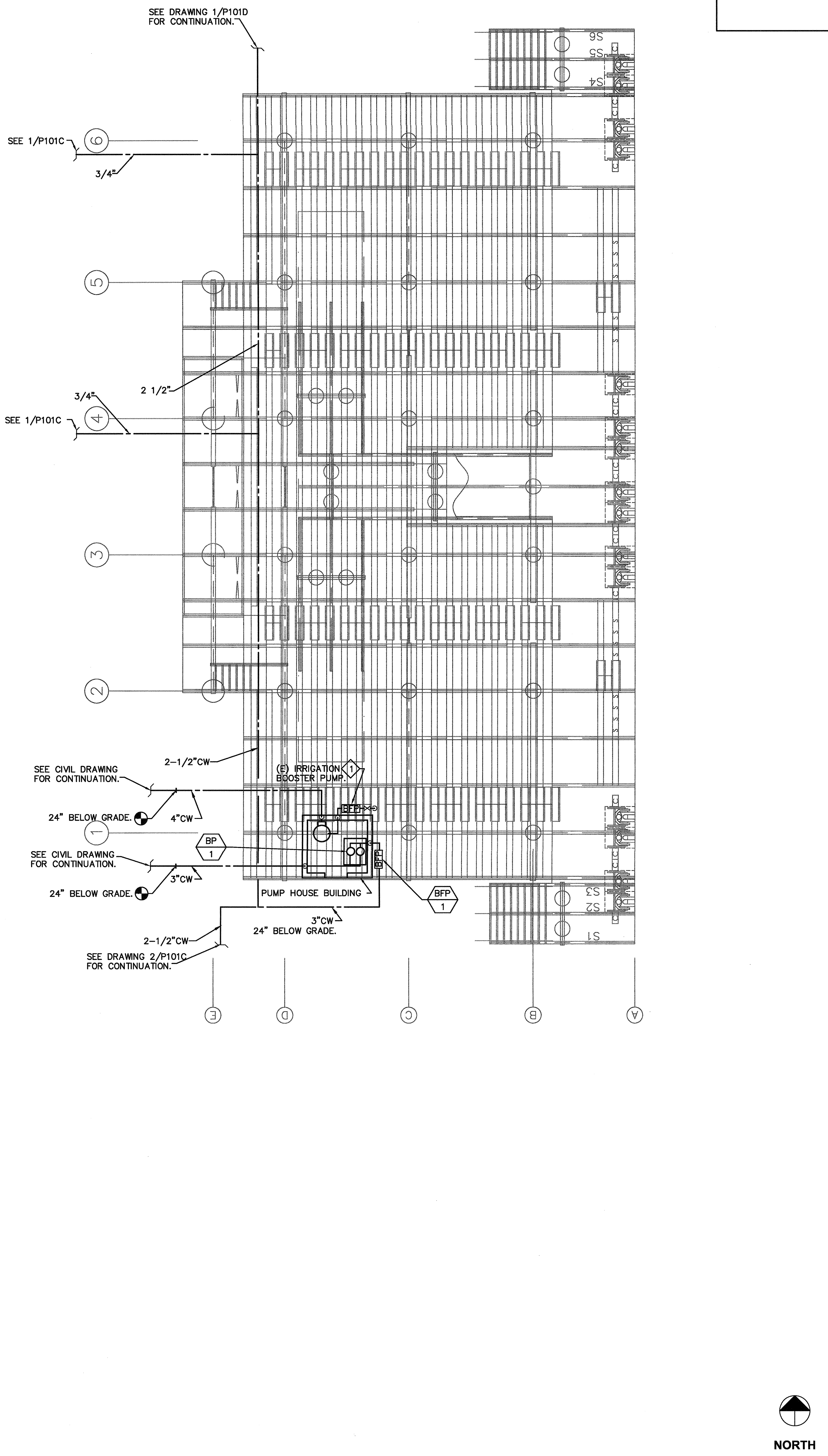
1. REMOVE EXISTING IRRIGATION BOOSTER PUMP AND BACK FLOW PREVENTER FROM THE OLD DEMOLISHED WATER PUMP BUILDING AND INSTALL THEM WITH ALL ASSOCIATED PIPING AT THE NEW WATER PUMP BUILDING.
2. RUN CONDENSATE AT 1% SLOPE.
3. 3/4" CONDENSATE DRAIN BELOW GRADE SPILL INTO DRYWELL. SEE DETAIL 8/ P301.
4. CONNECT 3/4" CD WITH TRAP TO FAN COIL UNIT ON WALL. 3/4" DOWN IN WALL TO BELOW GRADE.



TICKET BOOTH PLUMBING PLAN SCALE: 1/4"=1'-0" 3



VISITOR BLEACHER PLUMBING PLAN SCALE: 1/8"=1'-0" 2



HOME BLEACHER PLUMBING PLAN SCALE: 1/8"=1'-0" 1

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **P201**
SHEET TITLE:

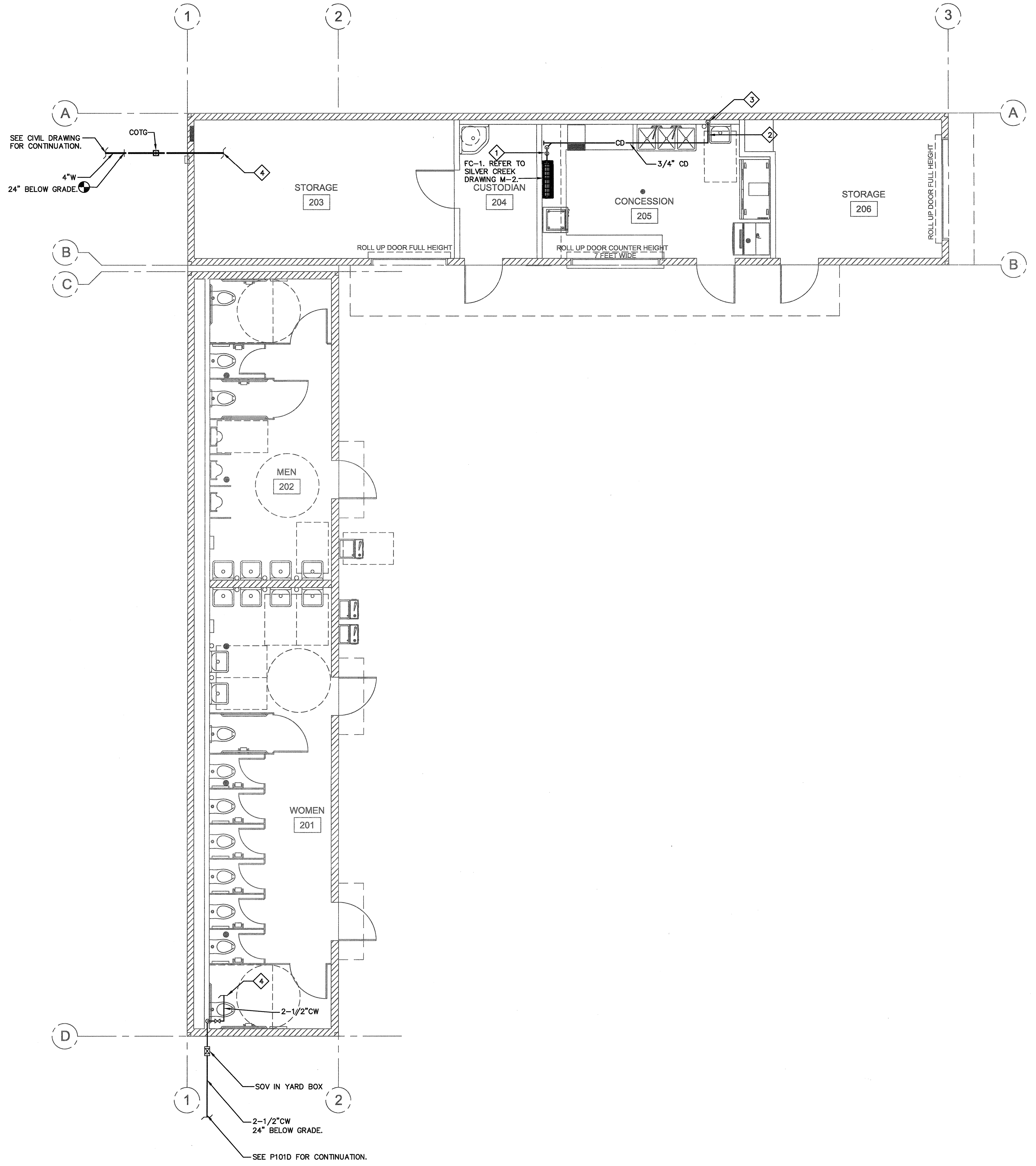
HOME AND VISITOR'S BLEACHERS PLUMBING PLANS

M29029
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

KEY NOTES

1. PUMPED CD FROM FAN COIL UNIT ON WALL UP TO CEILING SPACE. CONNECT WITH 3/4" CD GRAVITY LINE.
2. RUN CONDENSATE AT 1% SLOPE.
3. 3/4" CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO WASH SINK/LAVATORY'S TAILPIECE.
4. FOR CONTINUATION AND MODULAR BUILDING PLUMBING PLAN, SEE SILVER CREEK MODULAR TOILET AND CONCESSION BUILDING PLUMBING PLAN P–1.01 AND P–1.01a.



NORTH

VISITOR TOILETS - CONCESSION PLUMBING PLAN

SCALE: 1/4"=1'-0"

1

REGISTERED PROFESSIONAL ENGINEER
NOE PORTILLA
M29029
EXP. 06–30–2018
MECHANICAL
STATE OF CALIFORNIA

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **P202**

SHEET TITLE:

VISITOR TOILETS - CONCESSION PLUMBING FLOOR PLANS

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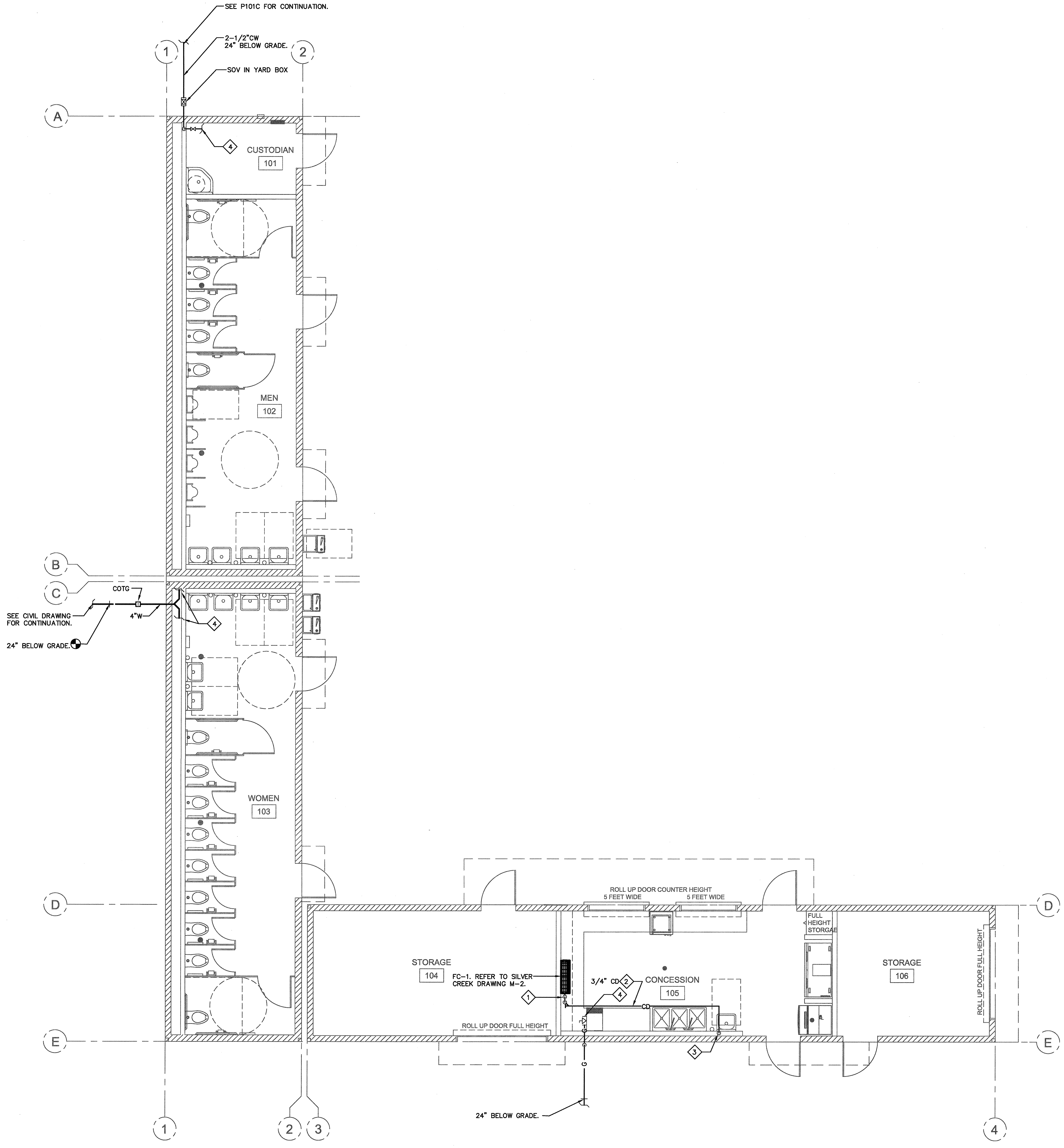
ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



NORTH

HOME TOILETS - CONCESSION PLUMBING FLOOR PLANS

SCALE:
1/4"=1'-0"

1

KEY NOTES

1. PUMPED CD FROM FAN COIL UNIT ON WALL UP TO CEILING SPACE. CONNECT WITH 3/4" CD GRAVITY LINE.
2. RUN CONDENSATE AT 1% SLOPE.
3. 3/4" CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO WASH SINK/LAVATORY'S TAILPIECE.
4. FOR CONTINUATION AND MODULAR BUILDING PLUMBING PLAN, SEE SILVER CREEK MODULAR TOILET AND CONCESSION BUILDING PLUMBING PLAN P-1.02 AND P-1.02a.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **P203**

SHEET TITLE:

HOME TOILETS - CONCESSION PLUMBING FLOOR PLANS

NOE PORTILLA
M29029
EXP. 06-30-2018
MECHANICAL

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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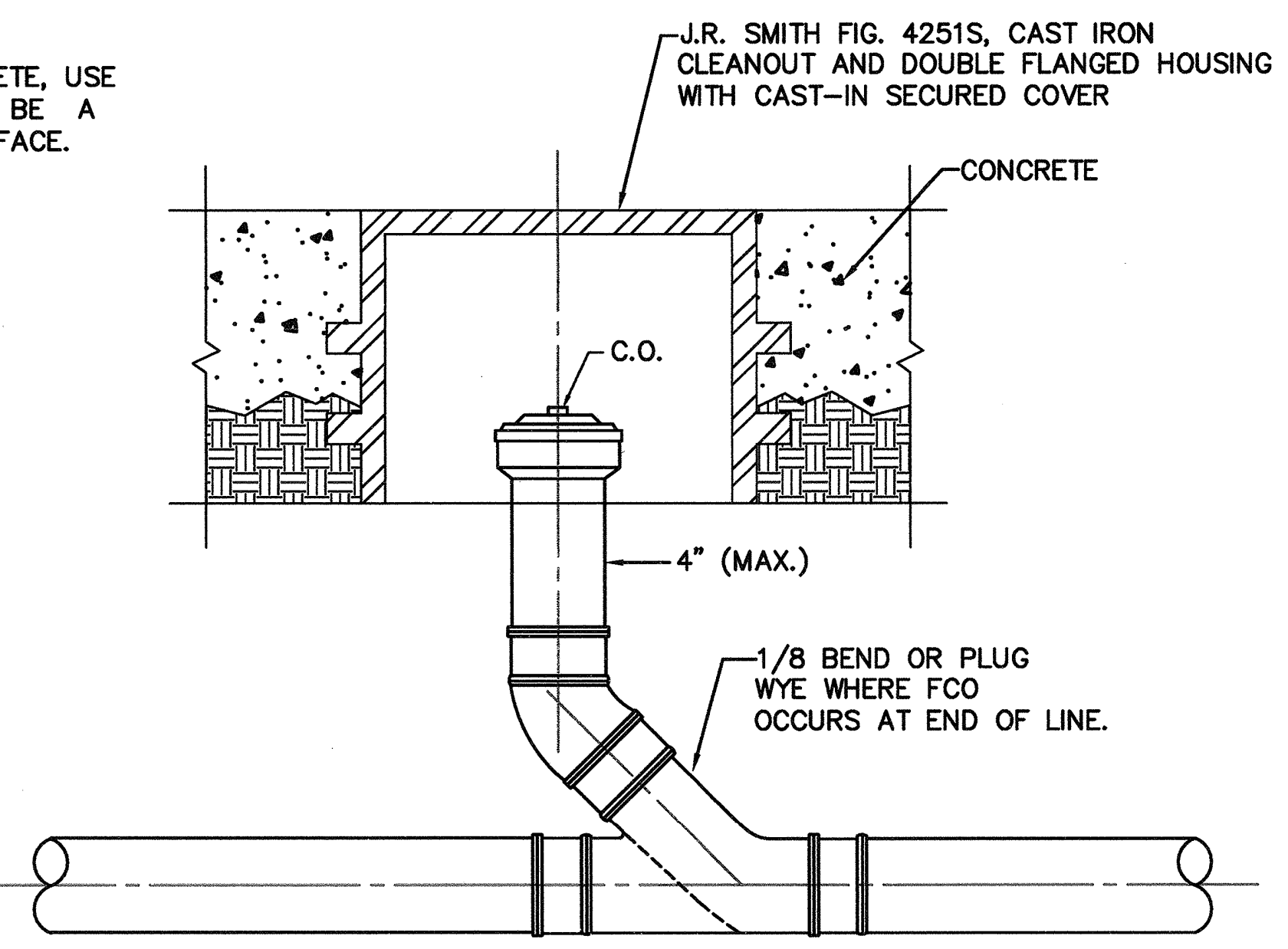
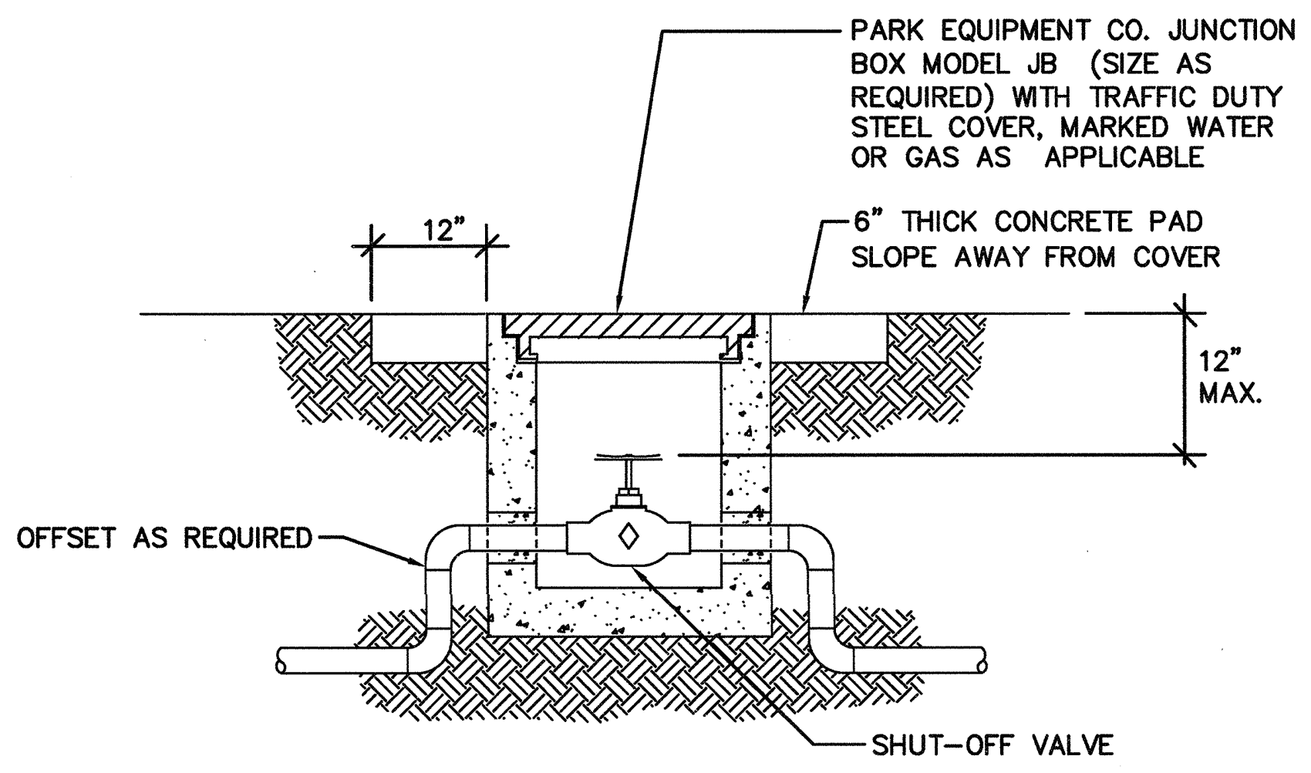
NOTE: WHERE IN CONCRETE, USE NO JOINT. CONCRETE TO BE A PART OF ADJACENT SURFACE.


J.R. SMITH FIG. 4251S, CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING WITH CAST-IN SECURED COVER
CONCRETE
C.O.
4" (MAX.)
1/8 BEND OR PLUG WYE WHERE FCO OCCURS AT END OF LINE.

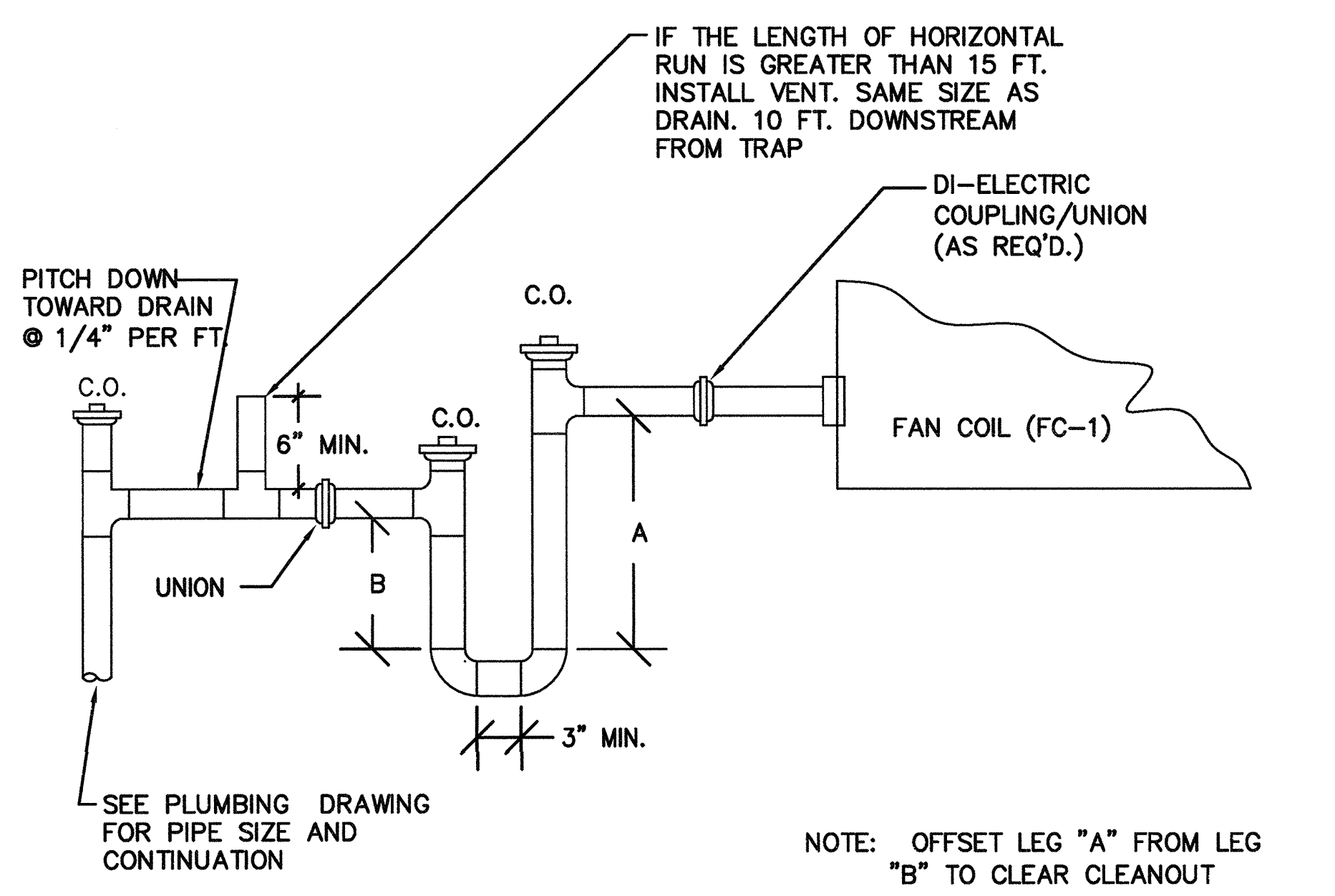
NOTE:

FOR CONDENSATE DRAIN CLEANOUT USE 1 1/2" PVC DWV FITTING CLEANOUT ADAPTER WITH CLEANOUT PLUG. (SEE PIPE MATERIAL SCHEDULE ON P0.01 FOR CONDENSATE DRAIN PIPE AND FITTING).

CLEANOUT TO GRADE IN YARD BOX NOT TO SCALE **1**


PARK EQUIPMENT CO. JUNCTION BOX MODEL JB (SIZE AS REQUIRED) WITH TRAFFIC DUTY STEEL COVER, MARKED WATER OR GAS AS APPLICABLE
12"
6" THICK CONCRETE PAD SLOPE AWAY FROM COVER
12" MAX.
OFFSET AS REQUIRED
SHUT-OFF VALVE

SHUT-OFF VALVE IN YARD BOX NOT TO SCALE **2**


IF THE LENGTH OF HORIZONTAL RUN IS GREATER THAN 15 FT. INSTALL VENT. SAME SIZE AS DRAIN. 10 FT. DOWNSTREAM FROM TRAP
DI-ELECTRIC COUPLING/UNION (AS REQ'D.)
PITCH DOWN TOWARD DRAIN @ 1/4" PER FT.
C.O.
C.O.
C.O.
6" MIN.
FAN COIL (FC-1)
UNION
B
A
3" MIN.
SEE PLUMBING DRAWING FOR PIPE SIZE AND CONTINUATION

DRAW THRU

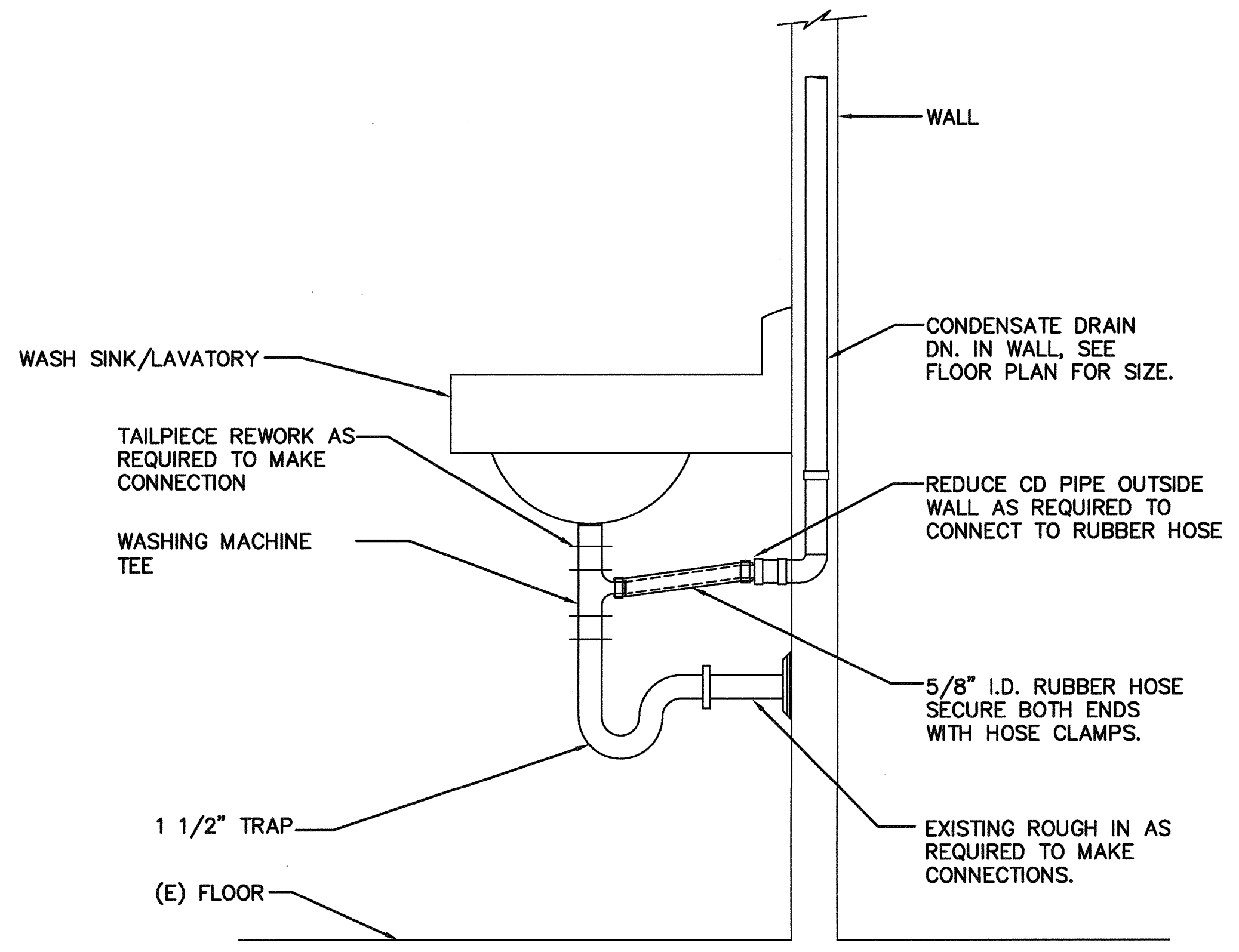
A= S.P. X 1.5 + 2"
B= S.P. X 0.5 + 1"
S.P.= SYSTEM STATIC PRESSURE (IN.)

NOTE: OFFSET LEG "A" FROM LEG "B" TO CLEAR CLEANOUT

DRAIN LINE SHALL NOT BE LESS THAN FULL SIZE OF EQUIP. CONN.

CONDENSATE DRAIN TRAP DETAIL NOT TO SCALE **3**

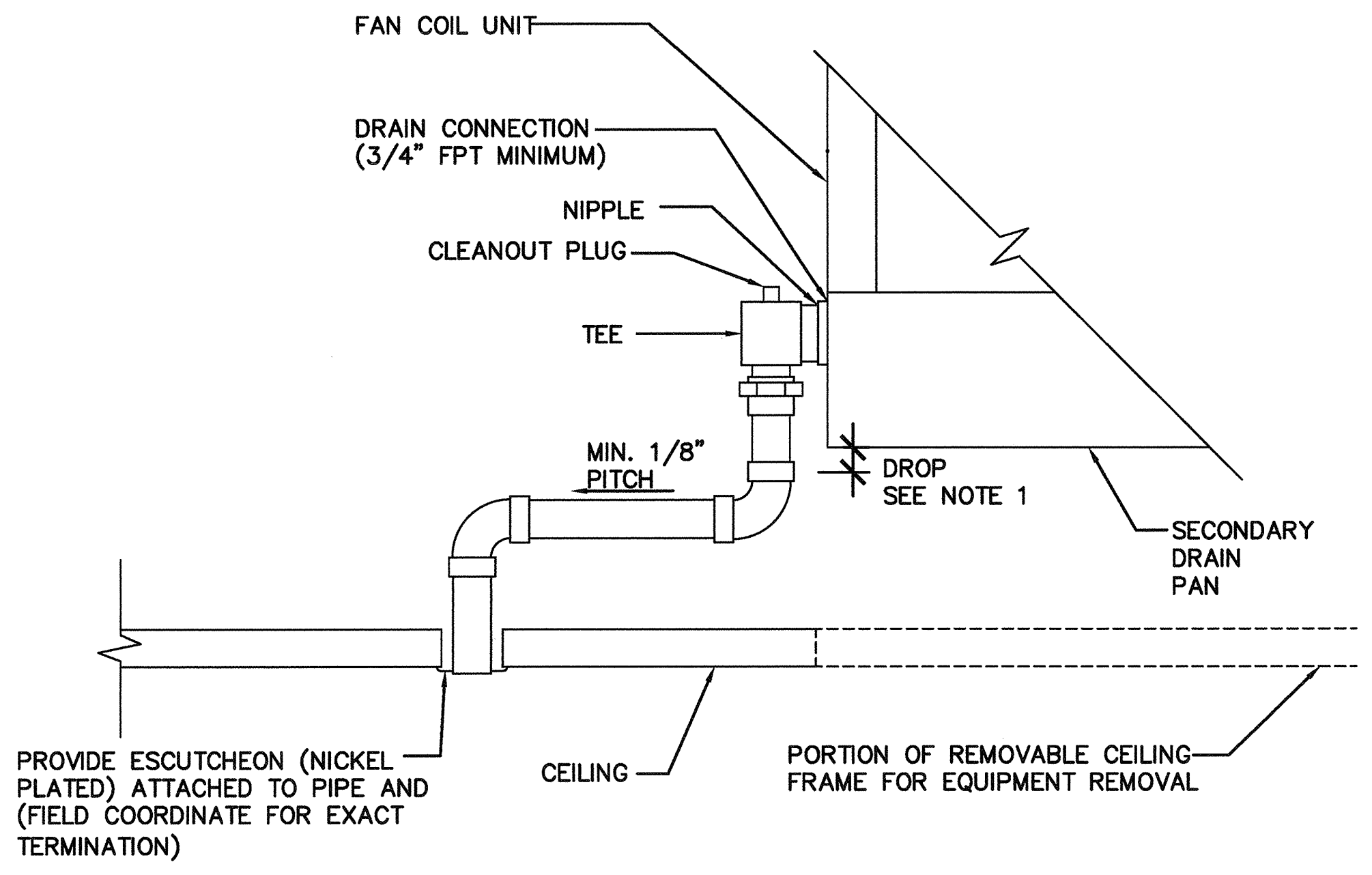
NOT USED NOT TO SCALE **4**


WALL
WASH SINK/LAVATORY
CONDENSATE DRAIN DN. IN WALL, SEE FLOOR PLAN FOR SIZE.
TAILPIECE REWORK AS REQUIRED TO MAKE CONNECTION
REDUCE CD PIPE OUTSIDE WALL AS REQUIRED TO CONNECT TO RUBBER HOSE
WASHING MACHINE TEE
5/8" I.D. RUBBER HOSE SECURE BOTH ENDS WITH HOSE CLAMPS.
1 1/2" TRAP
EXISTING ROUGH IN AS REQUIRED TO MAKE CONNECTIONS.
(E) FLOOR

CONDENSATE DRAIN CONNECTION TO TAILPIECE NOT TO SCALE **5**

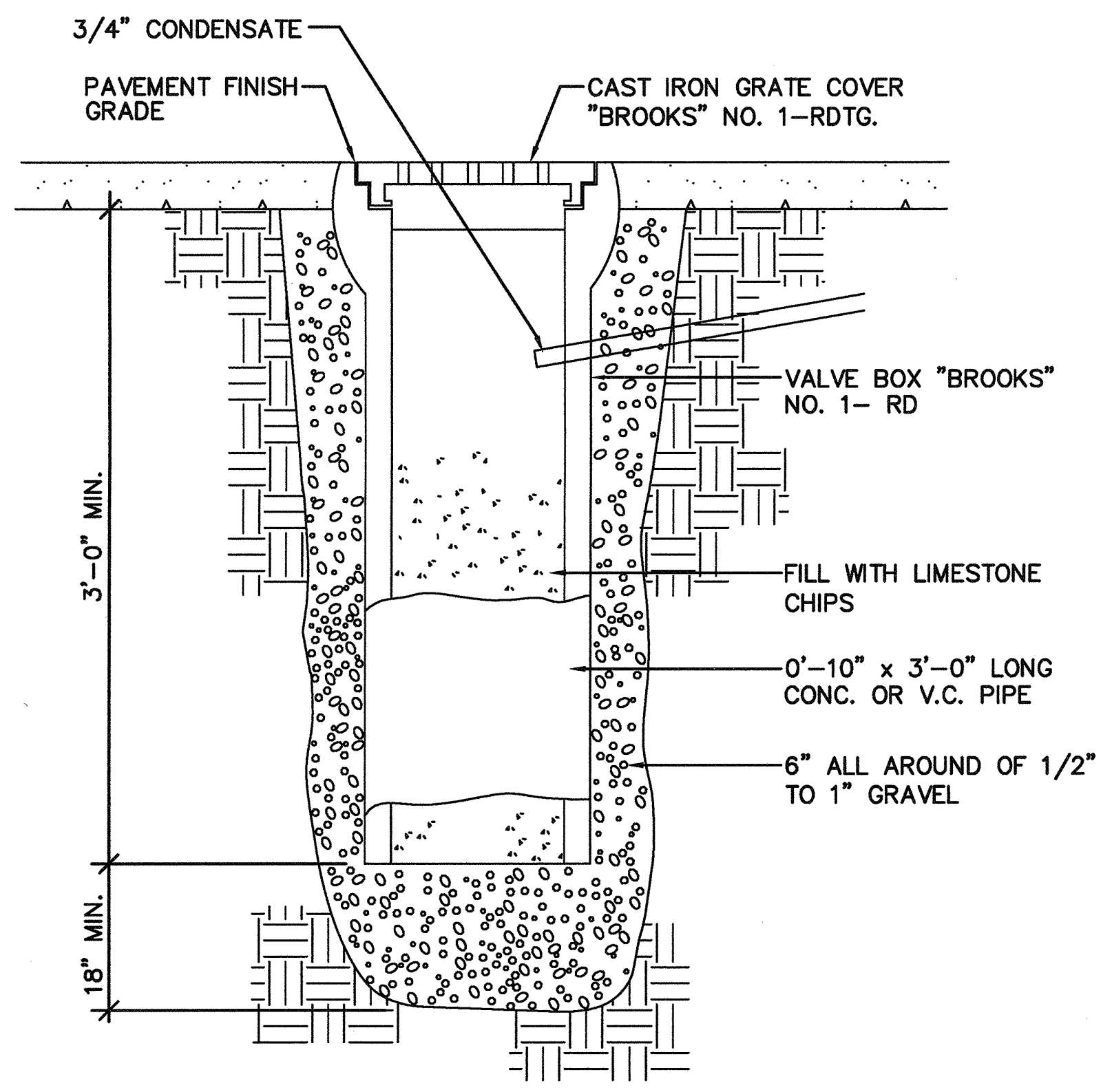
NOTES:

1. 1" MINIMUM DROP REQUIRED. USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM
2. PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED CONSPICUOUS CEILING LOCATION.
3. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW


FAN COIL UNIT
DRAIN CONNECTION (3/4" FPT MINIMUM)
NIPPLE
CLEANOUT PLUG
TEE
MIN. 1/8" PITCH
DROP SEE NOTE 1
SECONDARY DRAIN PAN
PROVIDE ESCUTCHEON (NICKEL PLATED) ATTACHED TO PIPE AND (FIELD COORDINATE FOR EXACT TERMINATION)
CEILING
PORTION OF REMOVABLE CEILING FRAME FOR EQUIPMENT REMOVAL

SECONDARY DRAIN PAN WATER PIPING DETAIL NOT TO SCALE **6**

NOT USED NOT TO SCALE **7**


3/4" CONDENSATE
PAVEMENT FINISH GRADE
CAST IRON GRATE COVER "BROOKS" NO. 1-RDTG.
VALVE BOX "BROOKS" NO. 1- RD
FILL WITH LIMESTONE CHIPS
0'-10" x 3'-0" LONG CONC. OR V.C. PIPE
6" ALL AROUND OF 1/2" TO 1" GRAVEL
3'-0" MIN.
18" MIN.

CONDENSATE DRAIN DRYWELL DETAIL NOT TO SCALE **8**

P:\P-2014\2014-115-00\MPE\P301.dwg Dec 01, 2016 - 4:17pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC____ FLS EB SS
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **P301**
SHEET TITLE:

DETAILS

NOE PORTILLA
M29029
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

GENERAL NOTES

1. ALL PIPES, DUCTS, CONDUITS, RACEWAYS, CABLE TRAYS AND BUS DUCTS SHALL BE ANCHORED AND BRACED TO RESIST THE FORCES PRESCRIBED IN SMACNA SECTION 1632A.6 (AND TABLE 16A-O, FOOTNOTE 12). WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL, OR ALUMINUM AND BRAZED, WELDED, OR SCREWED CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF NON-DUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO ONE- HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIAL IN ACCORDANCE WITH SECTION 1630A.5 OR OTHER STANDARDS APPROVED BY THE ENFORCING AGENCY. THE 1998 SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS MAY BE REFERENCED IN LIEU OF PROVIDING SPECIFIC DETAILS FOR MOST ORDINARY PIPE AND DUCT SUPPORT AND BRACING.

2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

   AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
   INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
   NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   AMERICAN STANDARD ASSOCIATION (ASA)
   NATIONAL FIRE PROTECTION AGENCY (NFPA)
   AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
   CALIFORNIA ELECTRICAL CODE (CEC) – LATEST EDITION
   CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
   INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
   ALL LOCAL CODES HAVING JURISDICTION.

   WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.

7. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.

8. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT EIGHT COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN DAYS OF CONTRACT AWARD.

9. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

11. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

12. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE FOR UL APPROVED SYSTEMS

13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.

15. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.

16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

17. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.

18. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

    OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

    OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.
    STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED.

    UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

    REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC., CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.

19. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

20. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 370-6, BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1 1/2 INCHES DEEP.

    SQUARE BY 1 1/2" D = 9 CONDUCTORS
    4" SQUARE BY 2 1/8" D = 13 CONDUCTORS
    4 11/16" SQUARE BY 1 1/2" D = 11 CONDUCTORS
    4 11/16" SQUARE BY 2 1/8" D = 18 CONDUCTORS
    ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.

21. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

22. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSH-BUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. (SEE SPECIFICATIONS) PULLBOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.

23. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

    WALL SWITCH AT CMU WALL +48" SET VERTICALLY
    WALL SWITCH AT DRY WALL +48" SET VERTICALLY
    CONVENIENCE RECEPTACLE AT CMU WALL +1'-6" SET VERTICALLY.
    OUTLETS AT COUNTERS WITHOUT SINK 38" SET VERTICALLY.

    MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

24. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. NO CONDUIT SHALL BE ROUTED HORIZONTALLY IN MASONRY WALLS IN EXCESS OF 48". DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.

25. THE EQUIPMENT GROUNDING CONDUCTOR ALTHOUGH NOT SHOWN ON CONDUIT RUNS, SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS-ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.

26. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.

27. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL SEISMIC SEPARATIONS.

28. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, HANGERS, BRACKETS, CLAMPS, COUPLINGS, BOXES, CONNECTORS AND HARDWARE REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

29. ALL LINE VOLTAGE WIRING SHALL BE #12 AWG COPPER WITH THWN/THHN INSULATION AND IN 3/4" DIAMETER CONDUIT MINIMUM. IN EACH CONDUIT WITHOUT CONDUCTORS, PROVIDE ONE #12 TW COPPER PULL WIRE WITH TAG IDENTIFYING LOCATION OF OPPOSITE END.

30. THE CENTER OF ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLE OUTLETS SHALL BE INSTALLED NOT LESS THAN 15" OR MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORMS, (ADA).

31. ANY LENGTH OF FEEDERS OR BRANCH CIRCUITS SHOWN ON ALL DRAWINGS ARE FOR USE IN DESIGN CALCULATIONS ONLY AND NOT TO BE USED FOR ANY OTHER PURPOSES.

32. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS, 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AND TYPED CIRCUIT DIRECTORY CARD AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.

33. FURNISH AND INSTALL GENERAL PURPOSE, K-1, PAD TRANSFORMER AS INDICATED ON THE DRAWINGS, WITH 150°C TEMPERATURE RISE, COPPER WINDING MATERIAL, NEMA-3R VENTED ENCLOSURE, FRAME 924, TAPS: 2 @ + 2.5% AND 2 @ – 2.5%, NEMA ST20 SOUND LEVEL: 60 AND NEMA TP-1 ENERGY EFFICIENT. COMPLETE WITH MANUFACTURER SEISMIC QUALIFICATION CERTIFICATION, DIMENSIONED OUTLINED DRAWINGS, EQUIPMENT ANCHORAGE DEVICES, TEXT REPORTS AND COMPLIANCE WITH IEEE C57.12.91 "TEST CODE FOR DRY-TYPE DISTRIBUTION AND POWER TRANSFORMERS". MANUFACTURED BY EATON, SIEMENS OR SQUARE-D.

34. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE LOCAL FIRE AUTHORITY. THE FIRE ALARM SYSTEM INDICATED IN THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO THE LOCAL FIRE AUTHORITY FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM SHALL MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

35. SIGNAL AND COMMUNICATIONS SYSTEMS (DATA, SECURITY, FIRE ALARM) PROVIDE A COMPLETE AND OPERABLE EXTENSION TO THE EXISTING SYSTEMS AS INDICATED ON THE DRAWINGS. THESE SYSTEMS SHALL BE PROVIDED AS A SINGLE SUBCONTRACT UNDER THE ELECTRICAL CONTRACT. IN THE INTEREST OF MAINTENANCE CONVENIENCE AND CAPABILITY, THE NEW EQUIPMENT SHALL MATCH THAT OF EXISTING SYSTEMS AS INSTALLED IN ADJACENT AREAS. ALL EQUIPMENT AND CABLE SHALL BE PROVIDED BY THE AUTHORIZED DISTRIBUTOR. PROVIDE ALL BACKBOXES PER MANUFACTURER'S REQUIREMENTS. SUBMIT ENGINEERED SHOP DRAWINGS FOR EACH SIGNAL AND COMMUNICATION SYSTEM TO THE ARCHITECT FOR REVIEW.

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2010 CBC, SECTION 1615A.1.12 THROUGH 1615A.1.22 AND ASCE 7-05 CHAPTER 6 AND 13.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARDWIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY GAS OR WATER.
3. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS IS REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENT WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7. AND 13.6.5.6, AND 2010 CBC, SECTIONS 1615A.1.20, 1615A.1.21 AND 1615A.1.22.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA#.) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

BUILDING OCCUPANCY CLASSIFICATION: GROUP E

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

APPLICABLE CODE AS OF JANUARY 1, 2014

Part 1 2013 California Building Standards Administrative Code, Title 24 C.C.R.
Part 2 2013 California Building Code, Title 24 C.C.R. (2012 International Building Code of the International Code Council, with California Amendments)
Part 3 2013 California Electrical Code, Title 24 C.C.R. (2011 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4 2013 California Mechanical Code, Title 24 C.C.R. (2012 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5 2013 California Plumbing Code, Title 24, C.C.R. (2012 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6 2013 California Energy Code, Title 24 C.C.R.
Part 7 currently vacant
Part 8 2013 California Historical Building Code, Title 24 C.C.R.
Part 9 2013 California Fire Code, Title 24 C.C.R. (2012 International Fire Code of the International Code Council
Part 10 2013 California Existing Building Code, Title 24 C.C.R. (2012 International Existing Building Code of the International Code Council, with amendments)
Part 11 2013 California Green Building Standard Code (CALGreen Code), Title 24 C.C.R.
Part 12 2013 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2013 California Building Code (for SFM) Referenced Standards Chapter 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (California Amended)	2013 Edition
NFPA 14	STANDPIPE SYSTEMS (California Amended)	2013 Edition
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 Edition
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 Edition
NFPA 20	STATIONARY PUMPS	2013 Edition
NFPA 24	PRIVATE FIRE SERVICE MAINS (California Amended)	2013 Edition
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (California Amended) (Note: See UL Standard 1971 for "Visual Devices"	2013 Edition
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 Edition
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEM	2006 Edition
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (California Ameded)	2012 Edition

SHEET INDEX

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E004	LIGHTING FIXTURE SCHEDULE
E005	INDOOR TITLE 24 COMPLIANCE FORMS
E006	INDOOR TITLE 24 COMPLIANCE FORMS
E007	OUTDOOR TITLE 24 COMPLIANCE FORMS
E008	OUTDOOR TITLE 24 COMPLIANCE FORMS
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E010	EMERGENCY EGRESS LIGHTING PHOTOMETRICS
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E102d	ENLARGED PARTIAL POWER SITE PLAN
E103a	ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (VISITORS)
E103b	ENLARGED BLEACHERS SIGNAL SYSTEM PLAN
E103c	ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (HOME TEAM)
E103d	ENLARGED SIGNAL SITE PLAN
E104a	ENLARGED TOILET BUILDING FIRE ALARM PLAN (VISITORS)
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E201	HOME BLEACHERS – LIGHTING AND POWER/SIGNAL PLANS
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E203	VISITORS BLEACHERS – LIGHTING AND POWER/SIGNAL PLANS
E204	VISITORS BLEACHERS – FIRE ALARM PLAN
E206	PRESS BOX ELECTRICAL PLANS
E207	TICKETING BOOTH ELECTRICAL PLANS
E300	FIRE ALARM DETAILS
E301	FIRE ALARM DETAILS
E400	GENERAL DETAILS
E401	GENERAL DETAILS
E402	GENERAL DETAILS
E403	DETAILS

E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT
PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS
CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS EY SS______
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

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SCALE: NONE

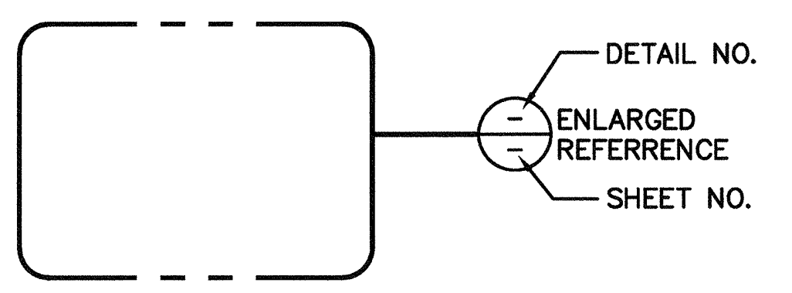
SHEET NUMBER: E001
SHEET TITLE:

GENERAL NOTES, APPLICABLE CODES & SHEET INDEX

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

SYMBOLS LIST

—EA—	EXISTING CONDUIT RUN AND WIRES TO BE ABANDONED.
—E—	CONDUIT RUN FOR POWER.
—EN—	EXISTING CONDUIT RUN TO REMAIN. NEW CONDUCTORS TO BE ADDED, REFER TO PLANS FOR WIRING REQUIREMENTS.
—EX—	EXISTING CONDUIT RUN TO REMAIN. EXISTING CONDUCTORS TO BE REMOVED. REFER TO PLANS FOR WIRING REQUIREMENTS.
———	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOORS.
-------	CONDUIT RUN EXPOSED.
— —	CONDUIT RUN UNDERGROUND.
———∃	CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.
AIC	"AMPERES INTERRUPTING CAPACITY"
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250-95, BUT NOT SMALLER THAN #12. EXAMPLE: #10 AWG
B-1,3	CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
▬	SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.
▬	RECESSED BRANCH CIRCUIT PANELBOARD.
(P1)	PANEL DESIGNATION.
▬	RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.
▭	SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.
Ⓙ	JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.
Ⓜ	THREE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR. NUMERAL IN PLACE OF "M" INDICATES HORSEPOWER.
100AF/70AT 3P	MOLDED CASE CIRCUIT BREAKER. "AF" INDICATES AMPERE FRAME, "AT" INDICATES AMPERE TRIP RATING AND NUMBER OF POLES AS INDICATED. SUBSCRIPT INDICATES TYPE. NO SUBSCRIPT THERMAL MAGNETIC NA NON-AUTOMATIC MO MAGNETIC ONLY CL CURRENT LIMITING SS SOLID STATE
	VOLTAGE TRANSFORMER. FLOOR MOUNTED, COPPER WOUND, DRY TYPE UNLESS SPECIFIED OTHERWISE.
	CURRENT TRANSFORMERS, "C.T.s"
)(	POTENTIAL TRANSFORMER, P.T.s".
	GROUND, "GRD".
GFI	"GROUND FAULT INTERRUPTER"
○ 1a	CEILING LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT, OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED SYMBOL INDICATES FIXTURE WITH EMERGENCY POWER PROVISIONS.
● 1a	FLUORESCENT LIGHT FIXTURE OUTLET. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.
○ 1a	BRACKET OR WALL MOUNTED LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.
⊗	ILLUMINATED EXIT LIGHT FIXTURE. SIDE, BACK, CEILING, OR PENDANT MOUNTED, SINGLE OR DOUBLE FACED AS NOTED BY SHADED ARC, WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. NOT TO BE USED AS JUNCTION BOX OR "THROUGH-WIRE" DEVICE.
▽ ▽	STAGE LIGHT
Q 106 21 +9'-0"	LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES FIXTURE TYPE. NUMERALS IN LOWER HALF OF HEXAGON INDICATE FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). NUMERAL OUTSIDE TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMERAL OUTSIDE BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.
S	WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. MOUNT AT + 48 INCHES.
OS	OCCUPANCY SENSOR COMPLETE WITH ALL POWER SUPPLIES, RELAY PACKS AND CONNECTIONS. REFER TO SPECIFICATIONS FOR TYPE AND DESCRIPTION.
S_a^{3k}	SWITCH. LOWER CASE LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. CAPITAL SUPERSCRIPT INDICATES SWITCH TYPE. NO SUPERSCRIPT – SINGLE POLE SWITCH 2 – DOUBLE POLE 3 – THREE WAY 4 – FOUR WAY I – ILLUMINATED HANDLE K – KEYED SWITCH LC – LOCKABLE COVER M – MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION MC – MOMENTARY CONTACT P – PILOT LIGHT PR – PRESS TYPE TP – THREE POSITION T – TIMER, 0-6 HR ROTARY OR AS NOTED
•–□	PARKING LOT FIXTURES IN NORMAL CIRCUIT.
•–■	PARKING LOT FIXTURES IN EMERGENCY CIRCUIT.
H WP	FIRE ALARM HORN, EXTERIOR WP = WEATHERPROOF
•–●	WALL MOUNTED OUTDOOR FIXTURE IN EMERGENCY CIRCUIT.
(HD) A	HEAT DETECTOR IN ATTIC - Accessible
(SD)	SMOKE DETECTOR
	DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNTED 6" ABOVE COUNTER.
C	DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. "C" INDICATES CEILING MOUNT.
	DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
	TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
	TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
	FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
	FLUSH FLOOR MOUNTED DUPLEX GFCI TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.
A	SPECIAL PURPOSE OUTLET MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE. A – NEMA TYPE 14-20R (208 VOLT, 3 PHASE, 20 AMP) B – NEMA TYPE 6-20R (208 VOLT, 1 PHASE, 20 AMP) C – NEMA TYPE 6-30R (208 VOLT, 1 PHASE, 30 AMP) D – NEMA TYPE 14-50R (208 VOLT, 1 PHASE, 50 AMP) E – NEMA TYPE 5-30R (120 VOLT, 1 PHASE, 30 AMP) F – NEMA TYPE 15-30R (208 VOLT, 3 PHASE, 30 AMP) G – NEMA TYPE 15-60R (208 VOLT, 1 PHASE, 60 AMP) H – NEMA TYPE 5-15R (120 VOLT, 1 PHASE, 15 AMP) K – NEMA TYPE L14-20P (120 VOLT, 1 PHASE, 30 AMP)
100AS	NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.
100AS/60AF F	FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AFU" INDICATES FUSE AMPERE RATING.
⊠ VFD II	MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.) NO SUBSCRIPT – FULL VOLTAGE, NON REVERSING PR – PRIMARY RESISTOR REDUCED VOLTAGE AT – AUTOTRANSFORMER REDUCED VOLTAGE WD – WYE-DELTA REDUCED VOLTAGE PW – PART WINDING REDUCED VOLTAGE SS – SOLID STATE REDUCED VOLTAGE REV – REVERSING TYPE 2S – TWO SPEED 2W – TWO WINDINGS CH – CONSTANT HORSEPOWER CT – CONSTANT TORQUE VT – VARIABLE TORQUE VFD – VARIABLE FREQUENCY DRIVE
⊠	COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH.
⊠ F II	COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.
I	COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER.
⊠ I	COMBINATION MAGNETIC MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR.
	SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR.
Ⓣ	THERMOSTAT OUTLET. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.
T	TRANSFORMER, PRIMARY & SECONDARY VOLTAGE AND KVA RATING AS NOTED. TYPE AND CONFIGURATION AS SPECIFIED. PROVIDE DRY TYPE, COPPER WOUND, WALL OR BOX MOUNTED UNLESS NOTED OTHERWISE.
=WM= =PM=	MULTI-OUTLET SURFACE METAL RACEWAY WITH SINGLE RECEPTACLES 18 INCHES ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS.
	SURFACE NON-METALLIC THREE COMPARTMENT RACEWAY FOR POWER AND SIGNAL SYSTEM ROUTING. (WIREMOLD 5500 SERIES OR APPROVED EQUAL). PROVIDE OUTLETS (POWER/DATA) AS INDICATED ON DRAWINGS.
▨	TELEPHONE TERMINAL BACKBOARD "TTB". 3/4 INCH SANDED AND PAINTED CPX PLYWOOD, 4' X 8' UNLESS NOTED OTHERWISE.
	TELEPHONE OUTLET, FLUSH FLOOR MOUNTED. REFER TO SPECIFICATIONS.
	FLUSH FLOOR MOUNTED COMPUTER OUTLET. REFER TO SPECIFICATIONS.
	PEDESTAL TYPE FLOOR COMPUTER OUTLET. REFER TO SPECIFICATIONS.
—T—	TELEPHONE SYSTEM CONDUIT RUN 3/4"C WITH (1) CAT-6 CABLE TO TERMINAL BLOCK LOCATED ON WALL ADJACENT TO DATA CABINET. RUN CABLE IN CEILING SPACE VIA CONDUIT TO TELEPHONE BACKBOARD.
—D/T—	COMBINATION VOICE DATA CONDUIT. RUN 1"C WITH (2) 4 PAIR CAT-6 (DATA), (1) 4 PAIR CAT-6 (VOICE).
M	MICROPHONE OUTLET
◀ W	TELEPHONE OUTLET. MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED. "F" INDICATES FIREMAN'S PHONE OUTLET. PROVIDE ALL CONNECTIONS TO FIRE ALARM SYSTEM AND ELEVATOR CONTROLS PER MANUFACTURER'S REQUIREMENTS. "W" ADJACENT INDICATES WALL MOUNTED AT +54 INCHES TO CENTER. "2" DENOTES DUPLEX OUTLET. "P" DENOTES PUBLIC TELEPHONE OUTLET MOUNTED AT +48 INCHES. RUN 3/4" CONDUIT ONLY WITH PULL LINE TO TELEPHONE TERMINAL BACKBOARD.
—D—	COMPUTER SYSTEM CONDUIT RUN. 1"C WITH (2) FOUR-PAIR CAT-6 CABLE TO DATA CABINET. STUB CONDUIT IN CEILING SPACE AND RUN CABLES IN CEILING SPACE TO DATA CABINET VIA CONDUIT.
◁	COMPUTER OUTLET WITH 2 DATA DROPS, MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED.
◀	COMBINATION VOICE/DATA OUTLET WITH 2 DATA DROPS AND 1 VOICE DROP. 4S BOX WITH 2 GANG RING AND PLATE. ENGRAVE PLATE "VOICE" AND "DATA" OVER RESPECTIVE JACKS. VERIFY TYPE OF JACK WITH SYSTEM SUPPLIER.
	FLUSH WALL MOUNTED SINGLE FACE CLOCK. MOUNT AT +90 INCHES UNLESS INDICATED OTHERWISE ON DRAWINGS. BATTERY POWERED, REFER TO SPECIFICATIONS.
—P—	PAGING SOUND SYSTEM CONDUIT RUN. MASTER ANTENNA TV SYSTEM CONDUIT AND CABLE. 3/4" MINIMUM. SEE SPECIFICATIONS AND RISER DIAGRAM ON SHEET E8.05 FOR MORE DETAILS.
(VC)	VOLUME CONTROL. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.
Ⓢ◁	WEATHERPROOF TYPE SPEAKER, BACKBOX AND GRILLE FLUSH MOUNTED. MOUNT AT +8'-0", U.N.O.
—SI—	SECURITY/INTRUSION SYSTEM CONDUIT RUN 3/4" CONDUIT NUMBER ADJACENT TO "SI" INDICATES NUMBER OF CABLES. RUN CABLES IN CEILING SPACE VIA CONDUIT TO TERMINAL CABINET. REFER TO SPECIFICATIONS FOR WIRING.
ALS	ASSISTIVE LISTENING SYSTEM
FD-SD	COMBINATION FIRE SMOKE DAMPER
(TV)	TV OUTLET 3/4" STUB UP TO CEILING ACCESS – +18" A.F.F. OR U.N.O.
C	COMPUTER OUTLET WITH 2 DATA DROPS, CEILING MOUNT.
Ⓢ◁	PA SYSTEM EXTERIOR LOUD SPEAKER.
DVD	DVD OUTLET 3/4" STUB UP TO CEILING ACCESS – +18" A.F.F. OR U.N.O.
AV	SQUARE BOX CRESTRON #IM-RXV1-M FOR CLASSROOM AUDIO AND VIDEO SYSTEM. SEE SPECIFICATIONS FOR MORE DETAILS.
PVS	AUDIO VISUAL SWITCHER-MOUNTED INSIDE CEILING.
TVSS	SURGE PROTECTION DEVICE.
θ→	PASSIVE INFRARED MOTION DETECTOR, REFER TO SPECIFICATIONS. MOUNT PER MANUFACTURERS REQUIREMENTS.
Ⓢ	SPEAKER WITH PROPER MATCHING TRANSFORMER, BACKBOX AND GRILLE.
L	"L" INDICATES MULTI PURPOSE ROOM SOUND SYSTEM LOUD SPEAKER.
—FOC—	12 STRANDED MULTI MODE FIBER OPTIC CABLES..
Ⓟ C	CEILING MOUNTED PROJECTOR.
○ E	EXISTING EQUIPMENT WITH "E" ADJACENT IS TO REMAIN.
○ R	EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.
○ RR	EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
○ ER	RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
	BRANCH CIRCUIT PANELBOARD, 3ø,4W SYSTEM UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULES FOR TYPE AND DETAIL.
PB	PULLBOX. REFER TO DRAWINGS FOR REQUIREMENTS.



KEYNOTES

- ◇ TYPICAL REMODEL KEYNOTE SYMBOL
- ⊖ TYPICAL DEMOLITION KEYNOTE SYMBOL

ABBREVIATIONS

AFF	AMPERE FINISHED FLOOR
AFU	AMPERE FUSE RATING
AIC	AMPS INTERRUPTING CAPACITY RATING (RMS SYMMETRICAL)
AMP, A	AMPERES
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OF BREAKER
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C.	CONDUIT
CAB	CABINET
CAT.	CATEGORY
CCTV	CLOSE CIRCUIT TELEVISION
C.O.	CONDUIT ONLY
CR	CONTROL RELAY (MAGNETICALLY HELD UNLESS NOTED OTHERWISE)
CU	COPPER
D	DEMOLISH/REMOVE
DISTR	DISTRIBUTION
DWG	DRAWING
ELEV	ELEVATION
EMERG	EMERGENCY
EQPT	EQUIPMENT
EXH	EXHAUST
E, EX	EXISTING TO REMAIN
FAA	FIRE ALARM ANNUNCIATOR
FDR	FEEDER
FF	FINISHED FLOOR
FG	FINISHED GRADE
FS	FLOW SWITCH
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
F.O.	FIBER OPTIC
FUT	FUTURE
GND	GROUND
HTR	HEATER
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
J.B.	JUNCTION BOX
K	THOUSAND (KILO)
KV	KILOVOLTS
KW	KILOWATTS
KWH	KILOWATT HOURS
KVA	KILOVOLT AMPERES
LS	LIMIT SWITCH
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
MDF	MAIN DISTRIBUTION FRAME
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MS	MANUAL MOTOR STARTER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NO	NUMBER
NTS	NOT TO SCALE
PNL	PANEL
PWR	POWER
PB	PULLBOX
R	RELOCATE
RE	RELOCATE EXISTING
RECPTS	RECEPTACLES
REQD	REQUIRE
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SEQ	SEQUENCE
SHT	SHEET
SM	SINGLE MODE
SPECS	SPECIFICATIONS
STA	STATION
SYS	SYSTEM
TBD	TO BE DETERMINED
TR	TIME DELAY RELAY
TS	TAMPER SWITCH
TTB	TELEPHONE TERM. BKBD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UGPS	UNDERGROUND PULL SECTION
V	VOLTMETER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WHM	WATT HOUR METER
WP	WEATHERPROOF
XFMR	TRANSFORMER

FOR FIRE ALARM, SCOPE/SYMBOLS SEE SHEET - E300.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
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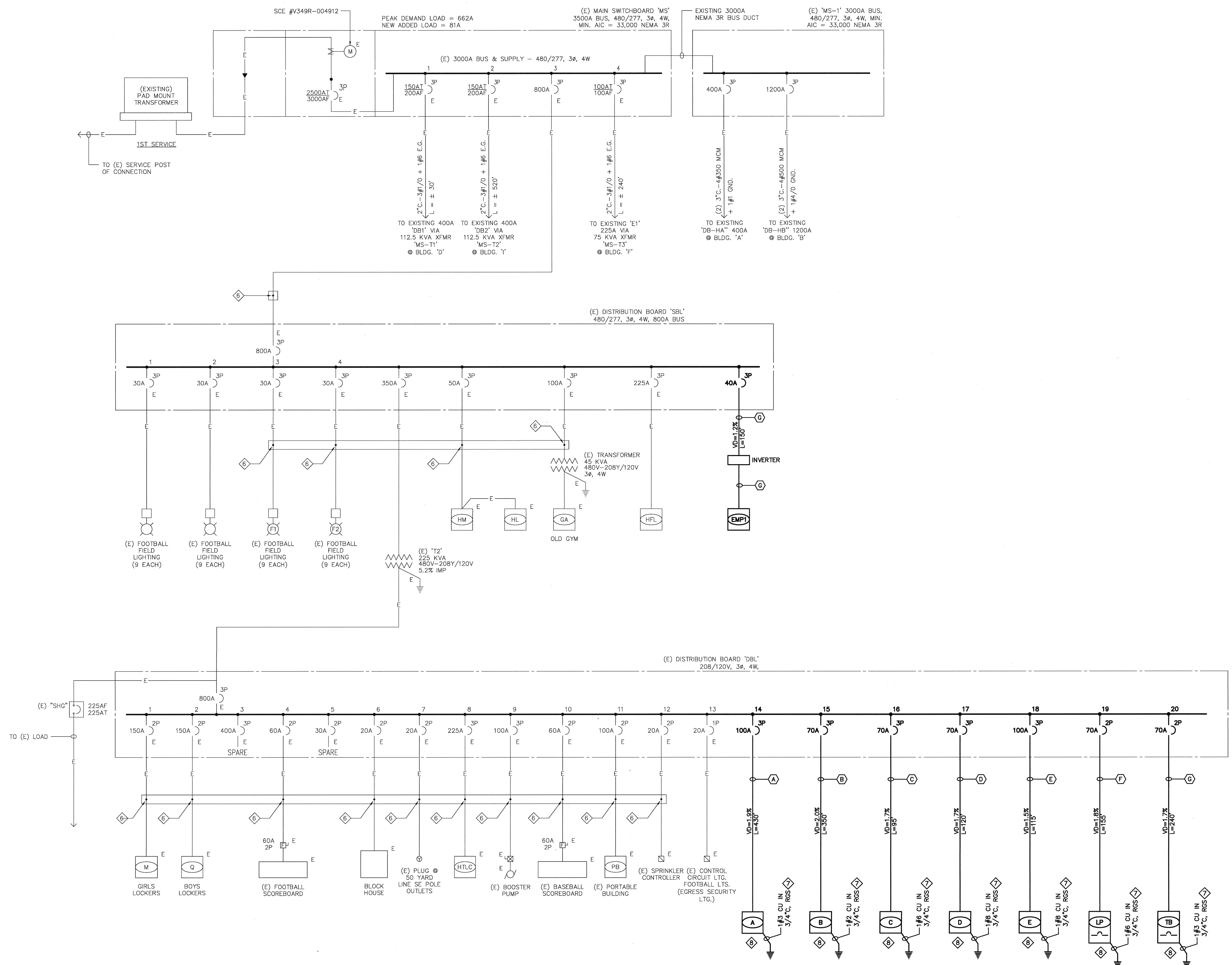
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **E002**
SHEET TITLE:

SYMBOLS LIST & ABBREVIATIONS

E17249
EXP. 06-30-2018
ELECTRICAL

ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



EXISTING SINGLE LINE DIAGRAM

KEY NOTES

1. THE EXISTING LOAD WAS OBTAINED FROM 1-YEAR DEMAND HISTORY, IN ACCORDANCE WITH C.E.C. ARTICLE 220.
2. CONNECT TO EXISTING SPARE CIRCUIT BREAKER. PROVIDE/INSTALL ENGRAVED NAMEPLATE TO READ "TR-SP" (SOUTH PORTABLES).
3. PROVIDE/INSTALL PAD MOUNTED TRANSFORMER WITH CHARACTERISTICS AS INDICATED. REFER TO GENERAL NOTE 33 ON SHEET E0.01. REFER TO SHEET E1.01 FOR LOCATION.
4. PROVIDE/INSTALL GROUND WELL. REFER TO DETAILS 11 & 12 ON SHEET E3.01 FOR LOCATION AND REQUIREMENTS.
5. PROVIDE/INSTALL DISTRIBUTION PANEL WITH CHARACTERISTICS AS INDICATED. REFER TO GENERAL NOTE 32 ON SHEET E0.01. REFER TO SHEET E1.01 FOR LOCATION.
6. INTERCEPT EXISTING FEEDER WITH NEW 5'X4'X5' UNDERGROUND CONCRETE PULLBOX.
7. 3/4", #6 CU. TO 10' X 5/8" CU. GROUND ROD, CONCRETE ENCASED ELECTRODE, BUILDING STEEL AND WITHIN 5' OF C.W. PIPE PER NEC 250-50.
8. CONTRACTOR TO REFER TO SILVER CREEK INDUSTRIES DRAWING FOR PANEL SCHEDULE INFORMATION

LOAD SUMMARY FOR PANEL "MS" 1

EXISTING LOAD (BASED ON 12 MONTH DEMAND HISTORY) = 551.0 KVA

551.0 KVA x 125% = 137.0 KVA

NEW LOAD ADDED = 68.0 KVA
TOTAL NEW LOAD = 756.0 KVA
TOTAL AMPS = 907.0A

FEEDER SCHEDULE

TAG	CONDUIT AND WIRE
A	3"C., 3#250 & 1#3 GRD.
B	2"C., 3#2/0 & 1#2 GRD.
C	1 1/4"C., 3#3 & 1#6 GRD.
D	1 1/2"C., 3#1 & 1#8 GRD.
E	2"C., 3#1 & 1#8 GRD.
F	1 1/2"C., 3#2 & 1#6 GRD.
G	2"C., 3#1/0 & 1#3 GRD.
I	1"C., 2#8 & 1#10 GRD.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS 67 SS
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E003
SHEET TITLE:

SINGLE LINE DIAGRAM & PANEL SCHEDULE

E17249
EXP. 06-30-2018

ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LAMP(S)	REMARKS	MANUFACTURER & NO.
A1 96	2'x4' RECESSED MOUNTED FLUORESCENT PRISMATIC ACRYLIC LENS, 277 VOLT	WHITE	(3) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS.	DAYBRITE LIGHTING #2-DP-F-3-32-RA-01-277-EB10R-1/2
A2 64	2'x4' RECESSED MOUNTED FLUORESCENT PRISMATIC ACRYLIC LENS, 277 VOLT	WHITE	(2) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	DAYBRITE LIGHTING #2-DP-F-2-32-RA-01-277-EB10R-1/2
B1 96	1'x4' SURFACE MOUNTED FLUORESCENT VANDAL RESISTANT LENS, 277 VOLT	WHITE	(3) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	PMC LIGHTING #PVL9-D-S-3-T8-4-CP-WHT-277
B2 64	1'x4' SURFACE MOUNTED FLUORESCENT VANDAL RESISTANT LENS, 277 VOLT	WHITE	(2) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	PMC LIGHTING #PVL9-D-S-2-T8-4-CP-WHT-277
C 32	8 1/2"X8 1/2"X48" SURFACE MOUNTED FLUORESCENT, .125 PRISMATIC POLYCARBONATE LENS, 277 VOLT	WHITE	(1) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	MORLITE #CE89-4-1-T8-SB-E-AL-UNV
D 64	4 3/8"X10 15/16X48" SURFACE MOUNTED FLUORESCENT, .125 PRISMATIC ACRYLIC LENS, 277 VOLT	WHITE	(2) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	DAYBRITE LIGHTING #VDW-N-2-32-277-1/2-EB10R
E 64	4-FOOTER, STRIPLIGHT FLUORESCENT WITH WIRE GUARD, 277 VOLT	WHITE	(2) 32W TB	REFER TO TRAILER MANUFACTURER DRAWINGS	DAYBRITE LIGHTING #VDW-N-2-32-277-1/2-EB10R-HD1-173
F 32	8" DIAMETER, RECESSED MOUNTED FLUORESCENT SHOWER DOWNLIGHTS, 277 VOLT	WHITE	(1) 32W CFM	REFER TO TRAILER MANUFACTURER DRAWINGS	CAPRI #CFRIC 6V2632/R1-R12P
F1 36	7 1/2" DIAMETER, RECESSED MOUNTED FLUORESCENT DOWNLIGHTS, 277 VOLT	WHITE	(2) 18W CFQ	PROVIDE 90 MINUTE EMERGENCY BATTERY PACK UNIT AS REQUIRED. REFER TO TRAILER MANUFACTURER DRAWINGS.	CAPRI #CFR62H18Q/R6232
G 64	13" DIAMETER, SURFACE MOUNTED FLUORESCENT, 277 VOLT	WHITE	(2) 32W TB	PROVIDE 90 MINUTE EMERGENCY BATTERY PACK UNIT AS REQUIRED. REFER TO TRAILER MANUFACTURER DRAWINGS.	MORLITE #AR3-W-232-HF-E-W-8-E-O-W
H 5	EXIT LIGHT	WHITE	(1) 5W	REFER TO TRAILER MANUFACTURER DRAWINGS	MORLITE #WRE-N-VF-R-BA-SD-277
I 42	AISLE LIGHT, WALL RECESSED MOUNTED, 277 VOLT	NATURAL ALUMINUM PAINT	(1) 42W TRF	PROVIDE 90 MINUTE EMERGENCY BATTERY PACK UNIT AS REQUIRED. REFER TO TRAILER MANUFACTURER DRAWINGS.	GARDCO LIGHTING #942-C-32TRF-LV-277-NP
J 26	4.2"X11.65"X7" SURFACE WALL MOUNTED FLUORESCENT, 277 VOLT	SILVER	(1) 26W	REFER TO TRAILER MANUFACTURER DRAWINGS.	SPECTRUM LIGHTING INC. #WJ1CF-26-EX-FJ1-CG1-CP9-S1
K 64	HALF CYLINDER DOWNLIGHT MINI SCONCE WALL SURFACE MOUNTED FLUORESCENT 277 VOLT	NATURAL ALUMINUM PAINT	(2) 32W QF	PROVIDE 90 MINUTE EMERGENCY BATTERY PACK UNIT AS REQUIRED. REFER TO TRAILER MANUFACTURER DRAWINGS.	GARDCO LIGHTING #114EM-MT-277-NP-WG
L 750	3 1/4"X3 7/8"X10 1/4" WALL RECESSED MOUNTED FLUORESCENT, 277 VOLT	NATURAL ALUMINUM PAINT	(2) 13W DTT	REFER TO TRAILER MANUFACTURER DRAWINGS	GARDCO LIGHTING #DF12-ST-HFL-750MH-277-NP-QS
M 26	3 1/4"X3 7/8"X10 1/4" WALL RECESSED MOUNTED FLUORESCENT, 277 VOLT	NATURAL ALUMINUM PAINT	(2) 13W DTT	REFER TO TRAILER MANUFACTURER DRAWINGS.	HYDREL LIGHTING #4452-A-2/13-DTT-277-LLV-LPI-DNA
O 70	FLOOD LIGHT FOR TOWER LIGHTING, 120V	NATURAL ALUMINUM PAINT	(1) 70W MH	REFER TO TRAILER MANUFACTURER DRAWINGS	HYDREL LIGHTING #4640-70M-120-FL-JBA-LPI-DNA
P 169	POLE MOUNTED LED FLOOD LIGHT MOUNTED AT 25'	NATURAL ALUMINUM PAINT	(1) 169W	REFER TO DETAIL #3 ON SHEET E-402. REFER TO TRAILER MANUFACTURER DRAWINGS.	MCGRAW-EDISON #GLEON-AF-01-LED-E1-T3

FIXTURE SCHEDULE NOTES

1. THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES. PROVIDE SEISMIC HANGERS AS REQUIRED.
2. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK.
3. LIGHTING FIXTURES SHALL BE LED TYPE WITH DIMMABLE DRIVERS.
4. EMERGENCY LIGHTING FIXTURES SHALL PROVIDED WITH 90 MINUTES CAPABLE MINIMUM OPERATING CAPACITY BATTERY PACK
5. ALL RECESSED LIGHTING FIXTURES SHALL BE IC RATED

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E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E004
SHEET TITLE:

LIGHTING FIXTURE SCHEDULE

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

A. General Information

Climate Zone: 6	Conditioned Floor Area : 2,962					
	Unconditioned Floor Area : 0					
Building Type:	☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
☐ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces
Phase of Construction:	☐	New Construction	☑	Addition	☐	Alteration
Method of Compliance:	☐	Complete Building	☑	Area Category	☐	Tailored
Project Address: 3048 Tyler Avenue						

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
✓		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
✓		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
✓		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	✓	NRCC-LTI-04-E	Tailored Method Worksheets
	✓	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4	+	1,389	Installed Lighting NRCC-LTI-01-E, page 4	+	0
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	1,389	Adjusted Installed Lighting Power (row 1 minus row 3)	=	0
5.	Complies ONLY if Installed ≤ Allowed			Complies ONLY if Installed ≤ Allowed		
6.	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1		2,380	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1		0

D. Declaration of Required Installation Certificates

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
✓		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
	✓	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
	✓	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
	✓	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
	✓	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ *Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.*

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If F ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	2x4 LED	43.0	☐	☑	4	172	Kitchen, Food Preparation	☐	☐
A	2x4 LED	43.0	☐	☑	4	172	Waiting Areas/Lounges	☐	☐
A	2x4 LED	43.0	☐	☑	13	559	Bathroom	☐	☐
A	2x4 LED	43.0	☐	☑	10	430	Commercial, Industrial Storage	☐	☐
B	1x4 LED	28.0	☐	☑	2	56	Kitchen, Food Preparation	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
INSTALLED WATTS PAGE TOTAL:						1,389	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nirav Gupta	Documentation Author Signature: N. Gupta
Company: PBS Engineers	Signature Date: 4/22/2016
Address: 2100 Route 66, Suite 101	CEA Certification Identification (if applicable):
City/State/Zip: Glendora, CA 91740	Phone: (626) 650-0350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: KUNAL SHAH	Responsible Designer Signature:
Company : PBS ENGINEERS	Date Signed: 4/22/2016
Address: 2100 E ROUTE 66 SUITE 101	License: E17249
City/State/Zip: GLENDORA, CA 91740	Phone: 626-650-0350

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
	✓	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
	✓	Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
✓		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
	✓	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
✓		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
	✓	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
	✓	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
	✓	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
	✓	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
✓		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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A# 03-117117
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DATE FEB 0 3 2017
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E005
SHEET TITLE:

INDOOR TITLE 24 COMPLIANCE FORMS

E17249
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐
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														☐	☐

Control Credit PAGE TOTAL (Sum of Column M):	0
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):	0
	Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nirav Gupta	Documentation Author Signature: N. Gupta
Company: PBS Engineers	Signature Date: 4/22/2016
Address: 2100 Route 66, Suite 101	CEA Certification Identification (if applicable):
City/State/Zip: Glendora, CA 91740	Phone: (626) 650-0350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
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5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: KUNAL SHAH	Responsible Designer Signature:
Company: PBS ENGINEERS	Date Signed: 4/22/2016
Address: 2100 E ROUTE 66 SUITE 101	License: E17249
City/State/Zip: GLENDORA, CA 91740	Phone: 626-650-0350

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)			
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			2,380
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1			2,380

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

1	2		3		4
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft^2)	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E)	Watts
Total from section C-2	2,380
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	2,380

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER (ft^2)	X	AREA (ft^2)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Restrooms	Bathroom	0.60		1,191		715
Storage	Commercial, Industrial Storage	0.60		972		583
Concession	Kitchen, Food Preparation	1.60		554		886
Press Box	Waiting Areas/Lounges	0.80		245		196
		TOTALS		2,962		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						2,380 WATTS

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

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C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

A	B	C [2]	D	E	F	G
Primary Function	Sq Ft or linear ft [1]	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of D or F
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						0

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 146-C, which include: Specialized task work; Ornamental lighting; *Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting..*
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: El Monte High Bleachers	Date Prepared: 4/22/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nirav Gupta	Documentation Author Signature: N. Gupta
Company: PBS Engineers	Signature Date: 4/22/2016
Address: 2100 Route 66, Suite 101	CEA Certification Identification (if applicable):
City/State/Zip: Glendora, CA 91740	Phone: (626) 650-0350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Responsible Designer Name: KUNAL SHAH	Responsible Designer Signature:
Company: PBS ENGINEERS	Date Signed: 4/22/2016
Address: 2100 E ROUTE 66 SUITE 101	License: E17249
City/State/Zip: GLENDORA, CA 91740	Phone: 626-650-0350

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC____ FLS____ SS____
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E006
SHEET TITLE:

INDOOR TITLE 24 COMPLIANCE FORMS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

KUNAL G. SHAH
E17249
EXP. 06-30-2018
ELECTRICAL

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STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

A. General Information

Project Address: 3048 TYLER AVE EL MONTE, CA 91731				Total Illuminated Hardscape Area 49,652
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration	
Outdoor Lighting Zone (OLZ)	☐ OLZ-1	☐ OLZ-2	☑ OLZ-3	☐ OLZ-4

I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power			Watts
1.	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	=	6,864
Complies ONLY if **Installed ≤ Allowed**			
2.	**Sum Total INSTALLED** Outdoor lighting Wattage from NRCC-LTO-01-E, page 3		4,806

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

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STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

G. Schedule of luminaires exempt from the cutoff requirements in §130.2(b)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of luminaires exempt from the outdoor lighting control requirements in §130.2(c)

Name or Symbol	Description of exempt luminaire in accordance with the exemptions

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STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
A	B	C	D		E	F	G	H	I	
			How wattage was determined							
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (C x E)	Primary Function area in which these luminaires are installed	BUG Rating	Pass	Fail
Type P	LED FLOOD LIGHT POLE MTD	178.0	☐	☑	27	4,806	Pedestrian Hardscape		☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
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			☐	☐					☐	☐
			☐	☐					☐	☐
			☐	☐					☐	☐
INSTALLED WATTS PAGE TOTAL:						4,806	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1		4,806	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ricardo Rodriguez	Documentation Author Signature: R.R.
Company: PBS Engineers	Signature Date: 10/27/2016
Address: 2100 E ROUTE 66	CEA Certification Identification (if applicable):
City/State/Zip: Glendora, CA 91740	Phone: (626) 650-0350

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Responsible Designer Name: Kunal Shah	Responsible Designer Signature:
Company: PBS Engineers	Date Signed: 10/27/2016
Address: 2100 e Route 66 Suite 101	License: E17249
City/State/Zip: Glendora, CA 91740	Phone: 6266500350

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: El Monte High School	Date Prepared: 10/27/2016

The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
- ☐ For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
- ☑ Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: El Monte High School	Date Prepared: 10/27/2016

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or enter 'E' if Exempted)						✓ if Acceptance Test Required	Field Inspector	
A	B	C	D	E	F	G	H	I	J	K	
Location and Application of Luminaires being controlled	Type/ Description of Lighting Control (i.e. motion sensor, photocontrol, outdoor astronomical time-switch control, centralized time-based zone lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
PEDESTRIAN HARDSCAPE	TIME CLOCK	1	✓	✓	✓	E	E	E		☐	☐
										☐	☐
										☐	☐
										☐	☐
										☐	☐
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: El Monte High School	Date Prepared: 10/27/2016

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STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1. 6,864

2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4		
0	+	0	+	0	+	0	=	2. 0

3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3. 6,864

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
A	B	C	D	E	F	G	H	I
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B x C)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (E x F)	IWA (Watts)	D + G + H
Pathway Lighting	49,652	0.090	4,469	2,709	0.600	1,625	770	6,864
							TOTAL	6,864

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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A# 03-117117
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REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E007
SHEET TITLE:

OUTDOOR TITLE 24 COMPLIANCE FORMS

KUNAL G. SHAH
E17249
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.

☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B

☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance per application on this site:									0

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Linear feet of Sales Frontage	Wattage Allowance per linear foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for sales frontage on the site:0									

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
August 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square feet of Hardscape	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for ornamental lighting on the site:									0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.

☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
Sum total allowance for specific area on the site:									0

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
August 2015

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 08/15)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: El Monte High School	Date Prepared: 10/27/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ricardo Rodriguez	Documentation Author Signature: R.R.
Company: PBS Engineers	Signature Date: 10/27/2016
Address: 2100 E ROUTE 66	CEA Certification Identification (if applicable):
City/State/Zip: Glendora, CA 91740	Phone: (626) 650-0350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kunal Shah	Responsible Designer Signature:
Company: PBS Engineers	Date Signed: 10/27/2016
Address: 2100 e Route 66 Suite 101	License: E17249
City/State/Zip: Glendora, CA 91740	Phone: 6266500350

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
August 2015

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E17249
EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
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FILE # 19-H10

REVISIONS:

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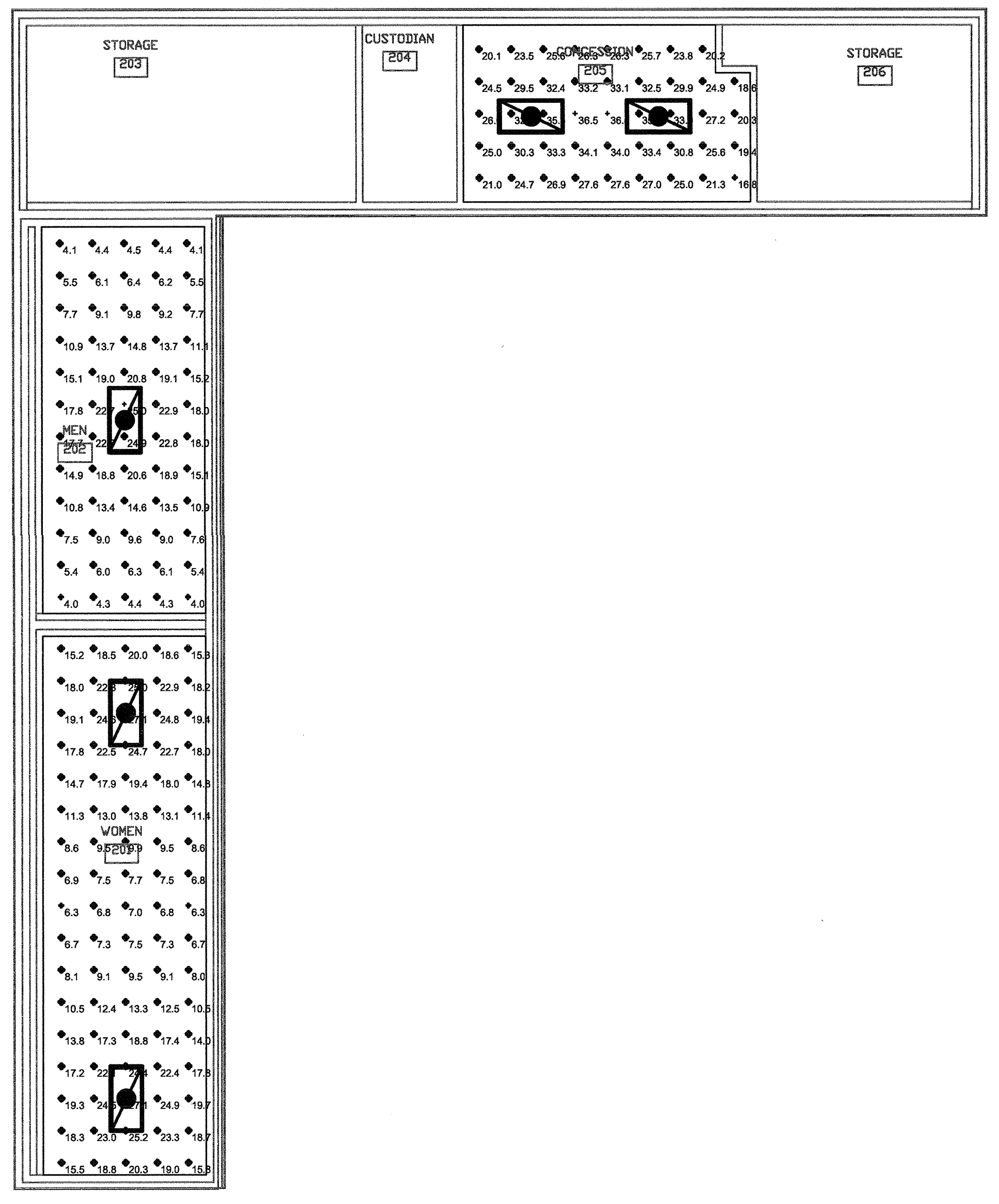
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

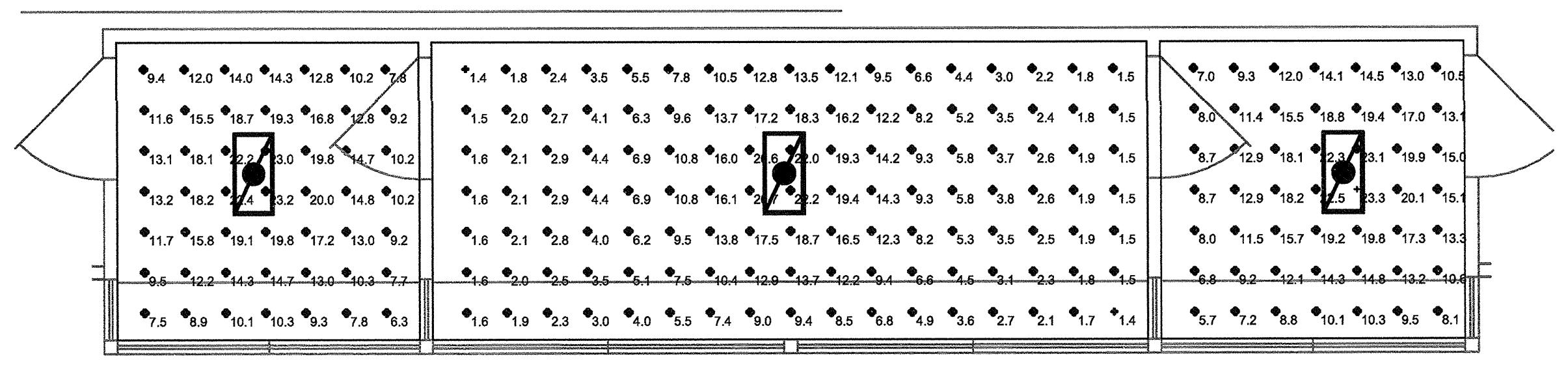
SHEET NUMBER: E008
SHEET TITLE:

OUTDOOR TITLE 24 COMPLIANCE FORMS

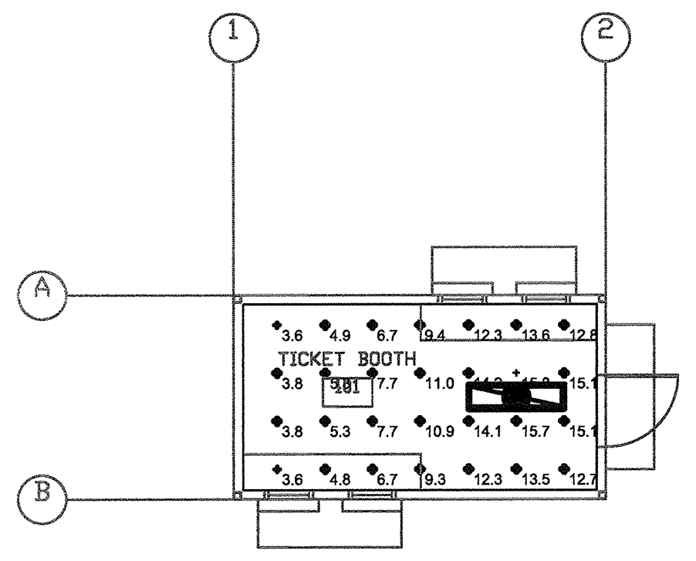
SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



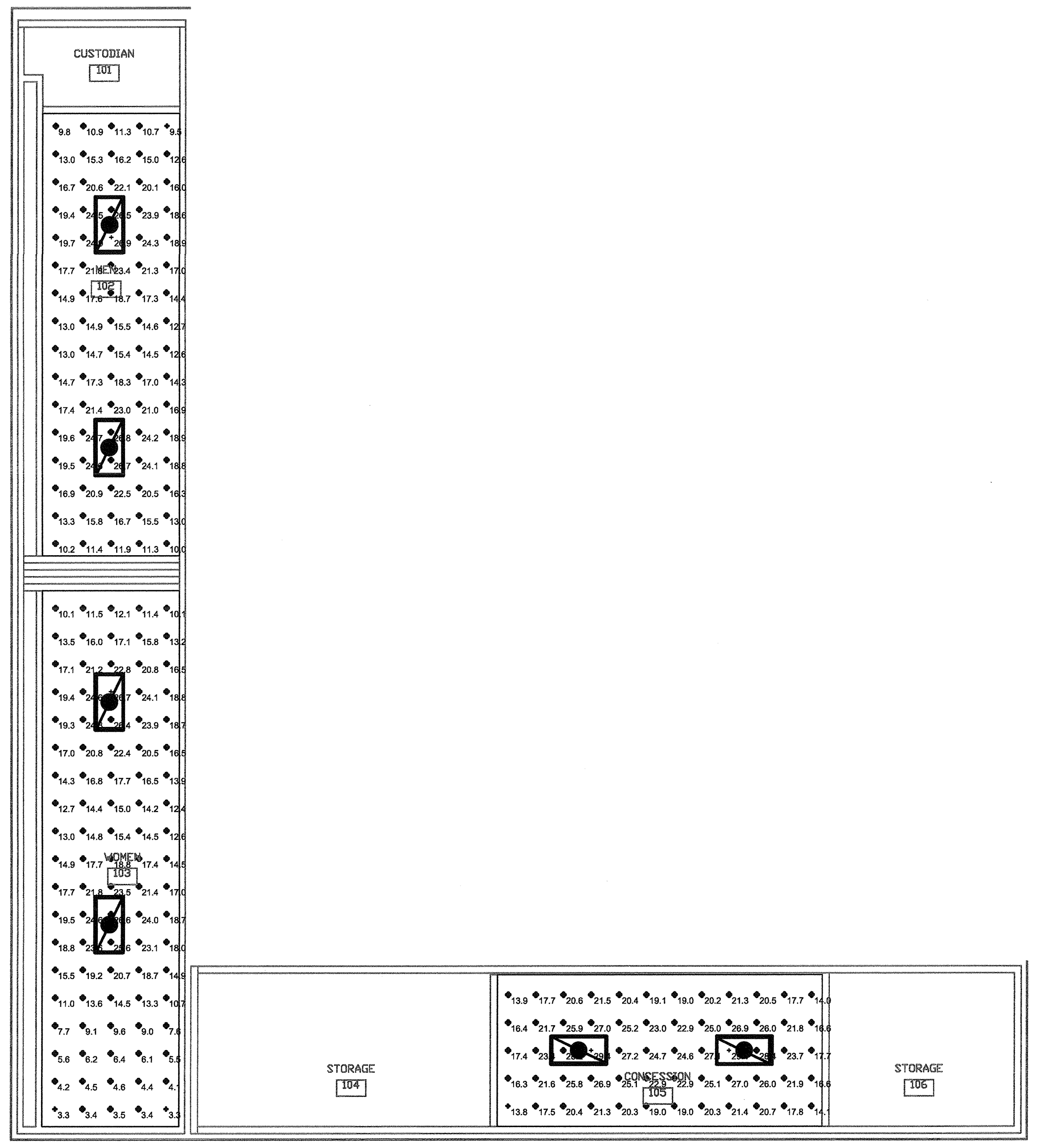
ENLARGED TOILET BUILDING PHOTOMETRIC PLAN (VISITOR TEAM)



ENLARGED PRESS BOX PHOTOMETRIC PLAN



ENLARGED TICKET BOOTH PHOTOMETRIC PLAN



ENLARGED TOILET BUILDING PHOTOMETRIC PLAN (HOME TEAM)

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Concession 105	+	21.8 fc	29.4 fc	13.8 fc	2.1:1	1.6:1	0.7:1
Concession 205	+	27.7 fc	36.5 fc	16.8 fc	2.2:1	1.6:1	0.8:1
Men 102	+	17.6 fc	26.9 fc	9.5 fc	2.8:1	1.9:1	0.7:1
men 202	+	11.7 fc	25.0 fc	4.0 fc	6.3:1	2.9:1	0.5:1
Press Box	+	10.0 fc	23.3 fc	1.4 fc	16.6:1	7.1:1	0.4:1
ticket booth 101	+	9.7 fc	15.8 fc	3.6 fc	4.4:1	2.7:1	0.6:1
Women 103	+	15.2 fc	26.7 fc	3.3 fc	8.1:1	4.6:1	0.6:1
women 201	+	15.5 fc	27.1 fc	6.3 fc	4.3:1	2.5:1	0.6:1

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E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E009
SHEET TITLE:

EMERGENCY PHOTOMETRIC CALCULATIONS

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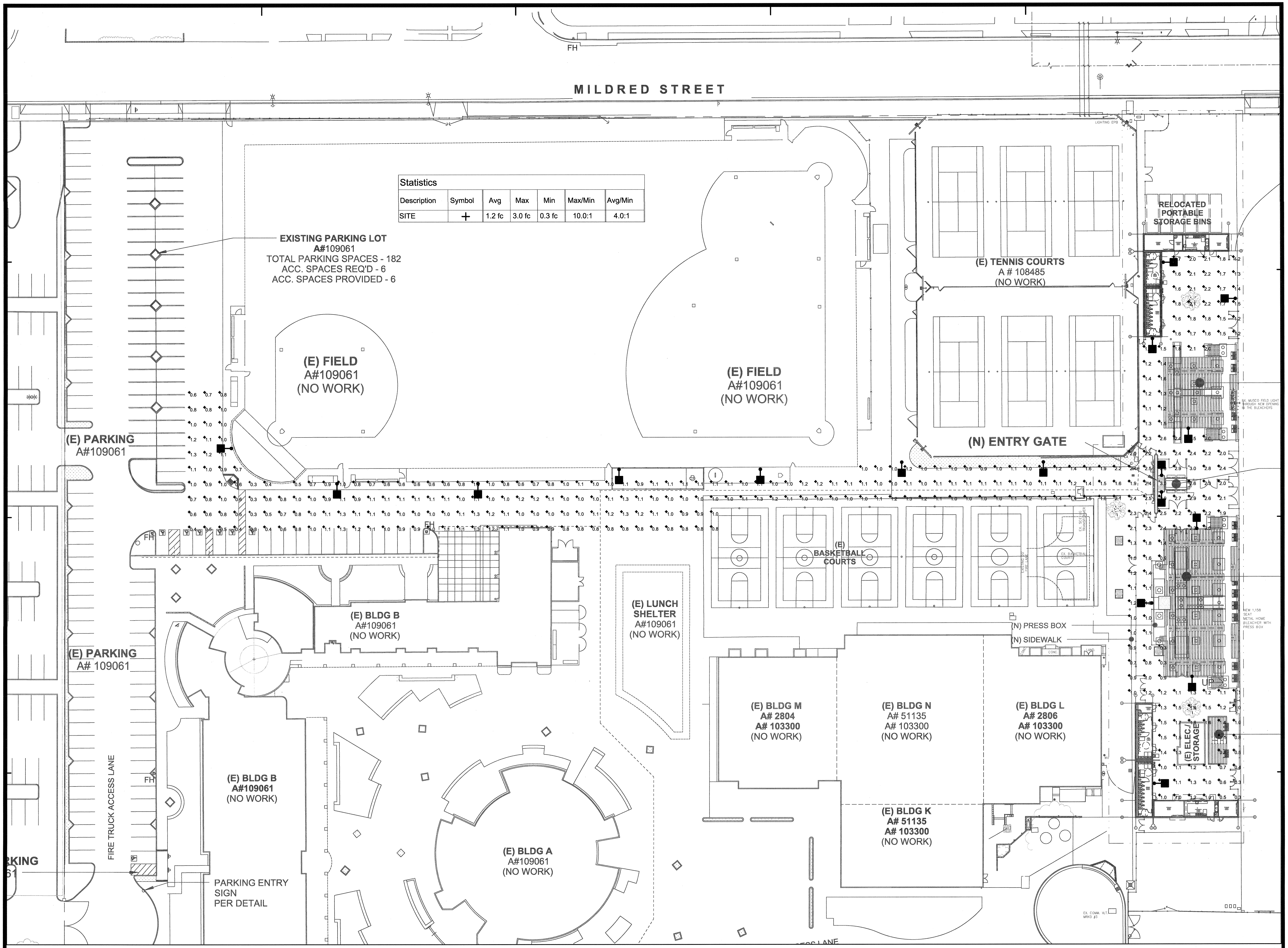
OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SITE	+	1.2 fc	3.0 fc	0.3 fc	10.0:1	4.0:1

EMERGENCY EGRESS LIGHTING PHOTOMETRICS

SCALE: 1"=25'-0"

1

E17249
EXP. 06-30-2018
ELECTRICAL

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E010
SHEET TITLE:

EMERGENCY EGRESS LIGHTING PHOTOMETRICS

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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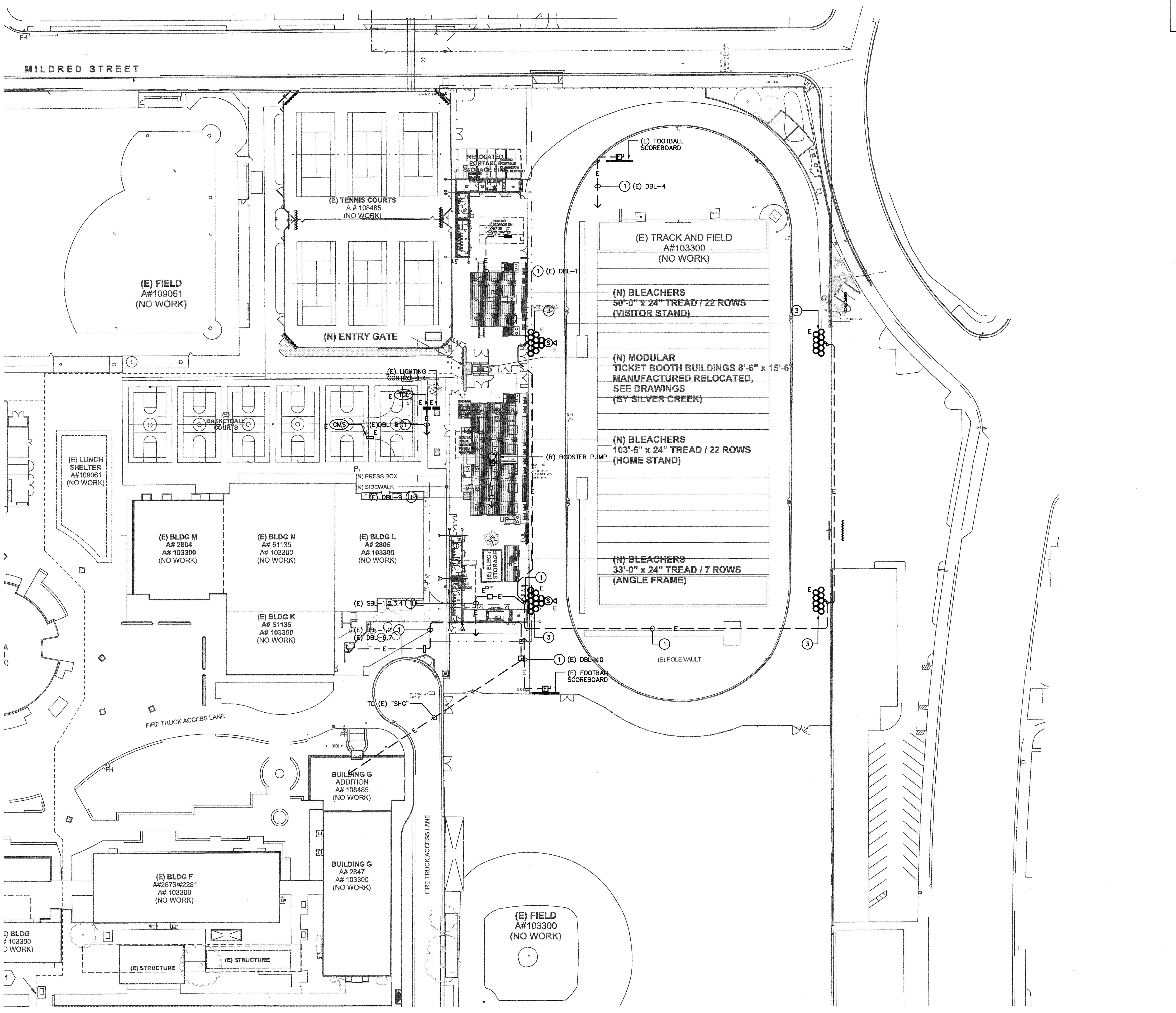
DEMOLITION NOTES

① EXISTING FEEDER TO REMAIN. RELOCATE PUMP COORDINATE WITH SPRINKLER DRAWINGS

② EXISTING FOOTBALL LIGHT POLE TO REMAIN. EXISTING CONTROLLER TO BE RELOCATED

③ EXISTING FOOTBALL LIGHT FIXTURES SHALL REMAIN.



TRUE NORTH

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **ED100**
SHEET TITLE:

ENLARGED DEMOLITION SITE PLAN

E17249
EXP. 06-30-2018

SVA ARCHITECTS
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ENLARGED DEMOLITION SITE PLAN
SCALE: 1"=40'-0"
1

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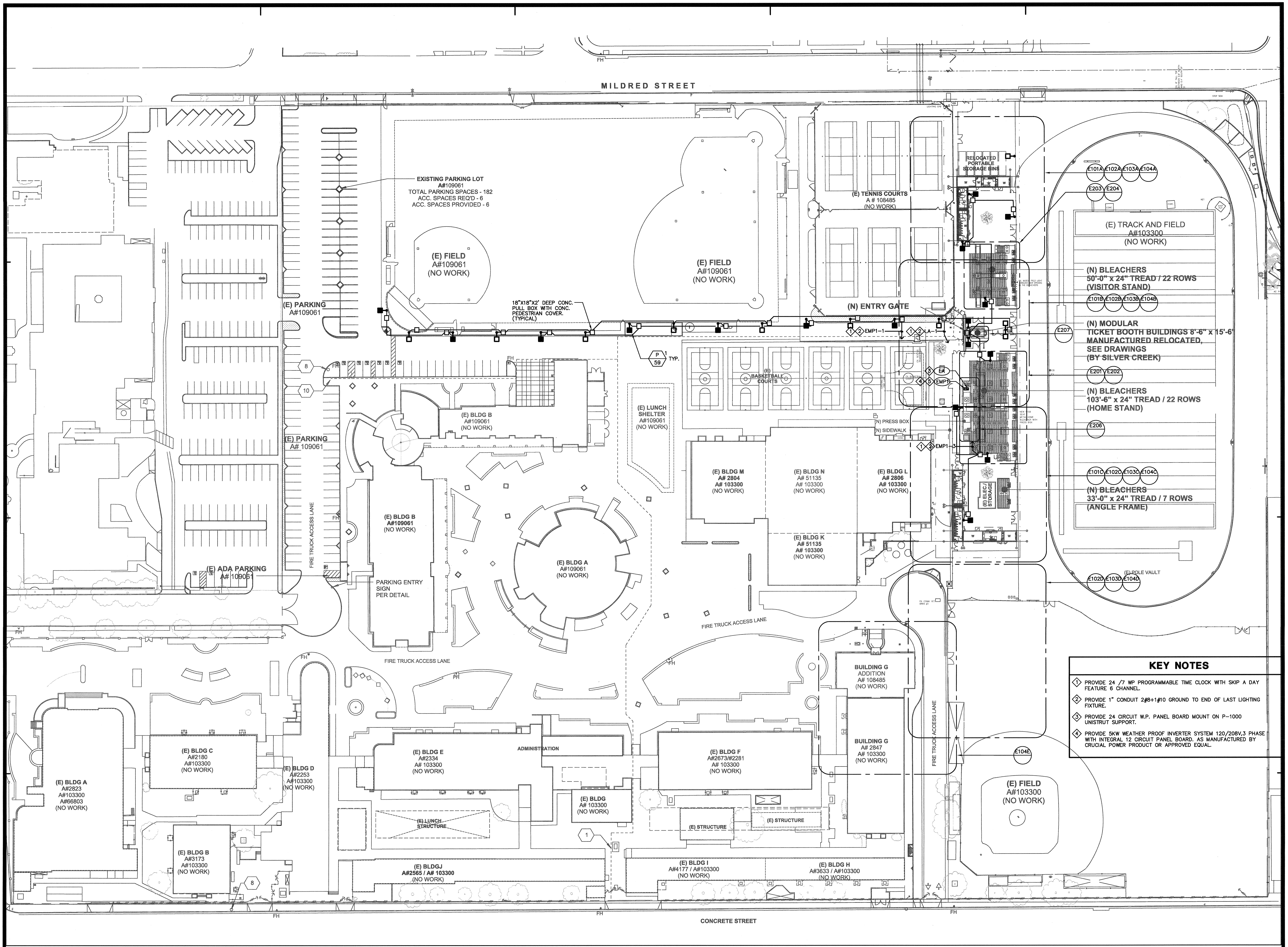
MILDRED STREET
CONCRETE STREET
EXISTING PARKING LOT
A#109061
TOTAL PARKING SPACES - 182
ACC. SPACES REQ'D - 6
ACC. SPACES PROVIDED - 6
(E) FIELD A#109061 (NO WORK)
(E) FIELD A#109061 (NO WORK)
(E) TENNIS COURTS A # 108485 (NO WORK)
RELOCATED PORTABLE STORAGE BINS
(E) TRACK AND FIELD A#103300 (NO WORK)
(N) BLEACHERS 50'-0" x 24" TREAD / 22 ROWS (VISITOR STAND)
(N) MODULAR TICKET BOOTH BUILDINGS 8'-6" x 15'-6" MANUFACTURED RELOCATED, SEE DRAWINGS (BY SILVER CREEK)
(N) BLEACHERS 103'-6" x 24" TREAD / 22 ROWS (HOME STAND)
(N) BLEACHERS 33'-0" x 24" TREAD / 7 ROWS (ANGLE FRAME)
E101A E102A E103A E104A
E203 E204
E101B E102B E103B E104B
E207
E201 E202
E206
E101C E102C E103C E104C
E102D E103D E104D
E104E
(E) POLE VAULT
EX. MUSCO FIELD LIGHT THROUGH NEW OPENING IN THE BLEACHERS
NEW 1158 SEAT METAL HOME BLEACHER WITH PRESS BOX
(N) ENTRY GATE
EMP1-1
LA
EMP1
(N) PRESS BOX
(N) SIDEWALK
ELEC./STORAGE
18"X18"X2' DEEP CONC. PULL BOX WITH CONC. PEDESTRIAN COVER. (TYPICAL)
P 59 TYP.
(E) PARKING A#109061
(E) PARKING A# 109061
(E) ADA PARKING A# 109061
FIRE TRUCK ACCESS LANE
(E) BLDG B A#109061 (NO WORK)
(E) BLDG B A#109061 (NO WORK)
PARKING ENTRY SIGN PER DETAIL
(E) BLDG A A#109061 (NO WORK)
(E) LUNCH SHELTER A#109061 (NO WORK)
BASKETBALL COURTS
(E) BLDG M A# 2804 A# 103300 (NO WORK)
(E) BLDG N A# 51135 A# 103300 (NO WORK)
(E) BLDG L A# 2806 A# 103300 (NO WORK)
(E) BLDG K A# 51135 A# 103300 (NO WORK)
BUILDING G ADDITION A# 108485 (NO WORK)
BUILDING G A# 2847 A# 103300 (NO WORK)
(E) FIELD A#103300 (NO WORK)
(E) BLDG A A#2823 A#103300 A#66803 (NO WORK)
(E) BLDG C A#2180 A#103300 (NO WORK)
(E) BLDG D A#2253 A#103300 (NO WORK)
(E) BLDG E A#2334 A# 103300 (NO WORK)
ADMINISTRATION
(E) BLDG F A#2673/#2281 A# 103300 (NO WORK)
(E) BLDG A# 103300 (NO WORK)
(E) LUNCH STRUCTURE
(E) STRUCTURE
(E) STRUCTURE
(E) BLDG B A#3173 A#103300 (NO WORK)
(E) BLDGJ A#2565 / A# 103300 (NO WORK)
(E) BLDG I A#4177 / A#103300 (NO WORK)
(E) BLDG H A#3633 / A#103300 (NO WORK)
FH
8
10
1
8

KEY NOTES

1. PROVIDE 24 /7 WP PROGRAMMABLE TIME CLOCK WITH SKIP A DAY FEATURE 6 CHANNEL.
2. PROVIDE 1" CONDUIT 2#8+1#10 GROUND TO END OF LAST LIGHTING FIXTURE.
3. PROVIDE 24 CIRCUIT W.P. PANEL BOARD MOUNT ON P-1000 UNISTRUT SUPPORT.
4. PROVIDE 5KW WEATHER PROOF INVERTER SYSTEM 120/208V,3 PHASE WITH INTEGRAL 12 CIRCUIT PANEL BOARD. AS MANUFACTURED BY CRUCIAL POWER PRODUCT OR APPROVED EQUAL.

CAMPUS LIGHTING AND POWER SITE PLAN

SCALE: 1"=40'-0"

1

E17249
EXP. 06-30-2018
ELECTRICAL

P:\P-2014\2014-115-00\MPE\E101.dwg Dec 01, 2016 - 4:55pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE
SHEET NUMBER: E101
SHEET TITLE:

CAMPUS LIGHTING AND POWER SITE PLAN

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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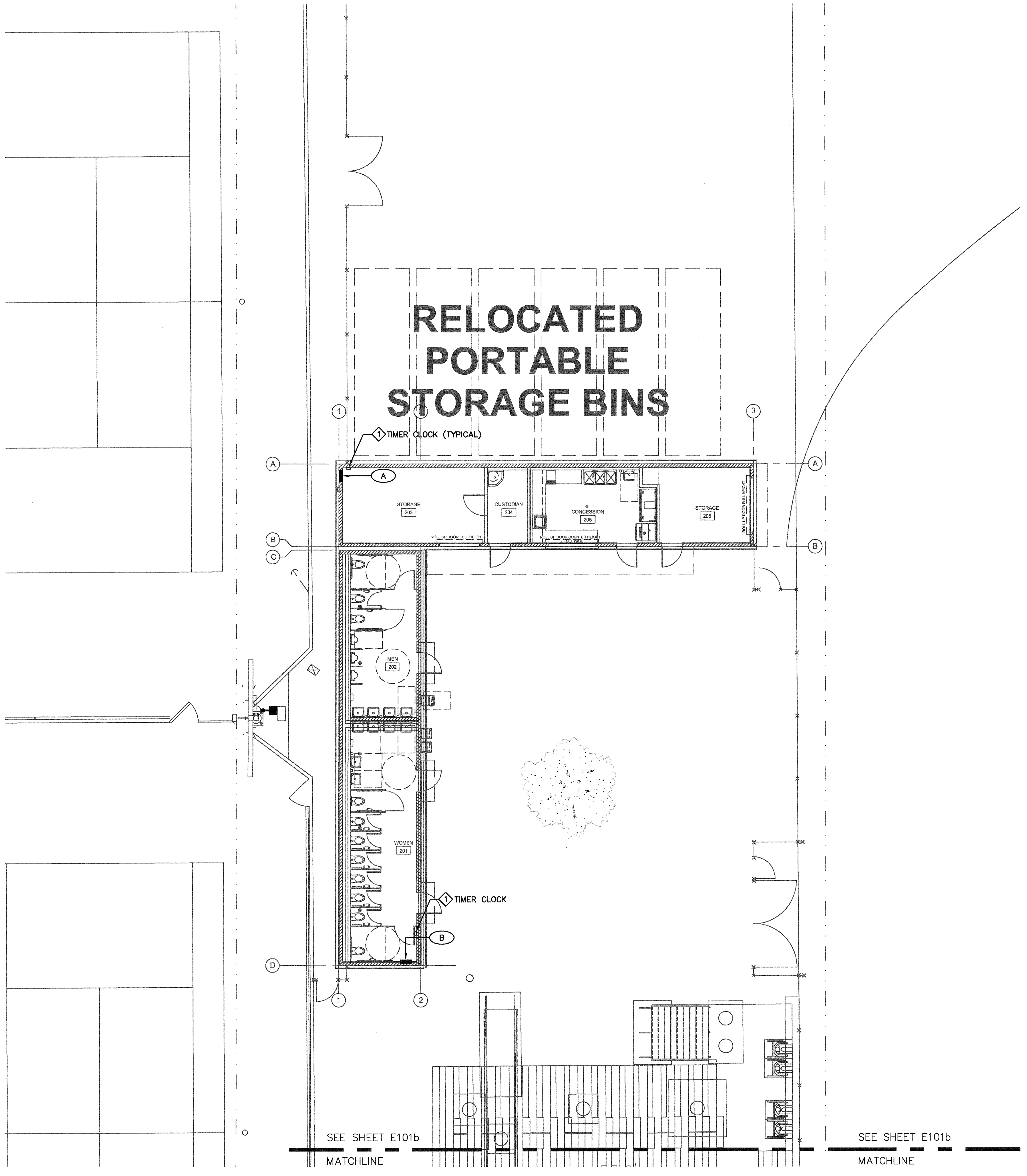

NORTH

ENLARGED TOILET BUILDING LIGHTING PLAN (VISITOR TEAM)

SCALE: 1/8"=1'-0" 1

GENERAL NOTES

1. ALL CONNECTION TO VIBRATING EQUIPMENT SHALL BE SEAL TYPE FLEXIBLE CONDUIT.
2. CONTRACTOR TO COORDINATE THE CONDUIT STUB UP LOCATION WITH THE APPROVED MECHANICAL SHOP DRAWINGS.
3. CONTRACTOR TO REFER TO APPROVED MECHANICAL SHOP DRAWINGS FORE THE EXACT REQUIREMENTS FOR THE SERVICE DISCONNECT SWITCH FRAME SIZE AND FUSES REQUIREMENTS.
4. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
5. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
6. REFER TO MECHANICAL PLANS FOR THE EXACT LOCATION OF ALL HVAC EQUIPMENT.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
    1. BRANCH CIRCUITS – LIGHTING AND POWER.
        a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
        b. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.
8. PROVIDE U.L. 924 CONTROL REALY FOR EMERGENCY LIGHTING CONTROL.
9. CONTRACTOR TO FIELD VERIFY AND PROVIDE SERVICE DISCONNECT SWITCHES AT EXISTING CEILING MOUNTED WATER SOURCE HEAT PUMPS.
10. CONTRACTOR TO RECONNECT SERVICE FOR DUCT DETECTORS AT THE WATER SOURCE HEAT PUMP DUCTS.
11. EACH MULTI–WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISOCNNECT ALL UNDERGROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
12. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMODATE NEW DESIGN.

SPECIAL KEY NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.01 FOR LIGHTING CIRCUIT DETAILS

KEY NOTES

1. PROVIDE LC&D LIGHTING CONTROL BLUE BOX AND MOUNT IN ACCESSIBLE CEILING SPACE.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014–115–00

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **E101a**

SHEET TITLE:

ENLARGED TOILET BUILDING LIGHTING PLAN (VISITOR TEAM)

SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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EXP. 06-30-2018
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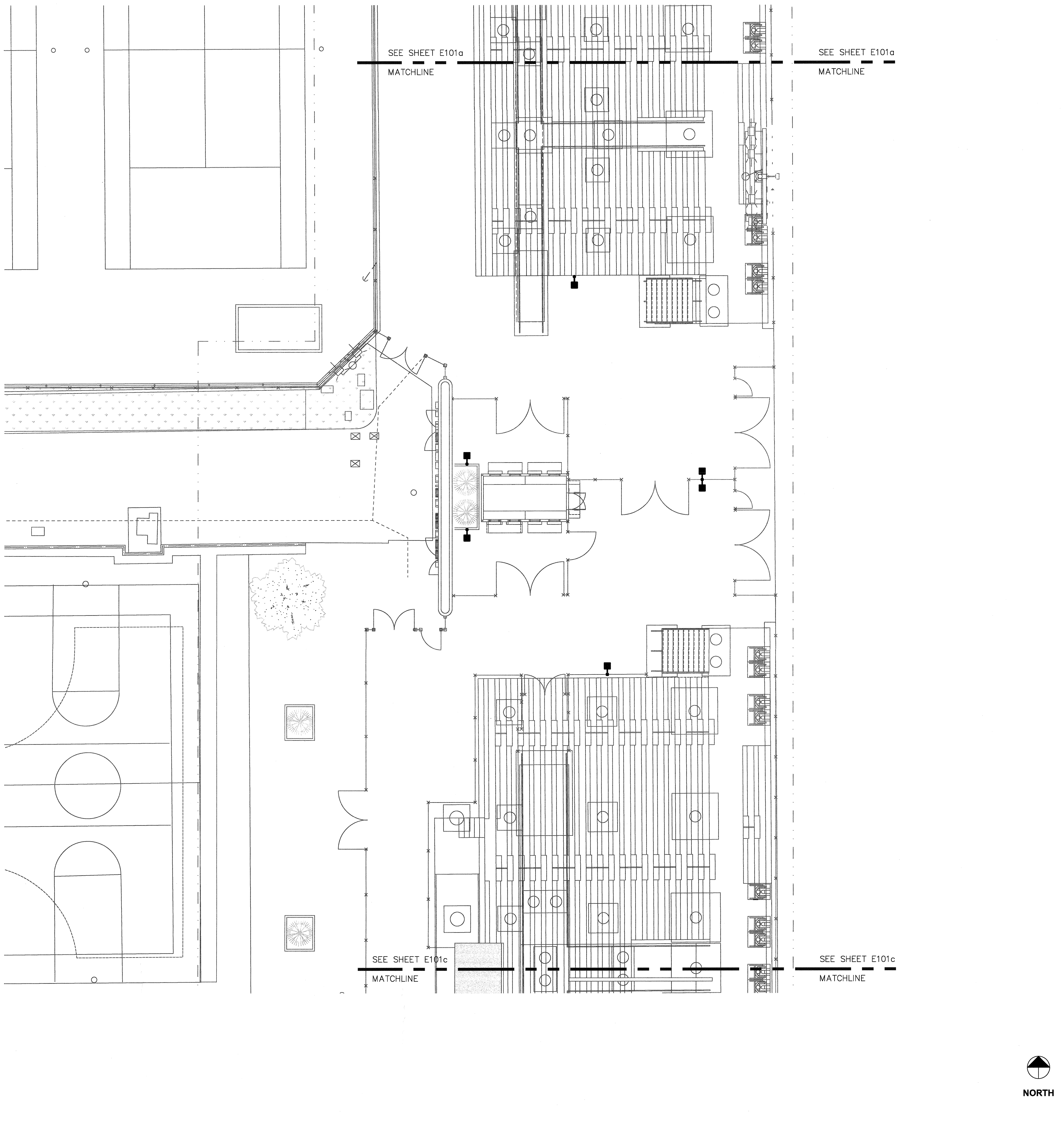

ENLARGED BLEACHERS LIGHTING PLAN

SCALE: 1/8"=1'-0"

1

GENERAL NOTES

1. ALL CONNECTION TO VIBRATING EQUIPMENT SHALL BE SEAL TYPE FLEXIBLE CONDUIT.
2. CONTRACTOR TO COORDINATE THE CONDUIT STUB UP LOCATION WITH THE APPROVED MECHANICAL SHOP DRAWINGS.
3. CONTRACTOR TO REFER TO APPROVED MECHANICAL SHOP DRAWINGS FORE THE EXACT REQUIREMENTS FOR THE SERVICE DISCONNECT SWITCH FRAME SIZE AND FUSES REQUIREMENTS.
4. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
5. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
6. REFER TO MECHANICAL PLANS FOR THE EXACT LOCATION OF ALL HVAC EQUIPMENT.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
    1. BRANCH CIRCUITS – LIGHTING AND POWER.
        a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
        b. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.
8. PROVIDE U.L. 924 CONTROL RELAY FOR EMERGENCY LIGHTING CONTROL.
9. CONTRACTOR TO FIELD VERIFY AND PROVIDE SERVICE DISCONNECT SWITCHES AT EXISTING CEILING MOUNTED WATER SOURCE HEAT PUMPS.
10. CONTRACTOR TO RECONNECT SERVICE FOR DUCT DETECTORS AT THE WATER SOURCE HEAT PUMP DUCTS.
11. EACH MULTI–WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISOCNNECT ALL UNDERGROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
12. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMODATE NEW DESIGN.
13. PROVIDE 5KVA INVERTER SYSTEM MOUNT IN OUTDOOR ENCLOSURE

SPECIAL KEY NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.02 FOR LIGHTING CIRCUIT DETAILS

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS
ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **E101b**
SHEET TITLE:

ENLARGED BLEACHERS LIGHTING PLAN

E17249
EXP. 06-30-2018

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ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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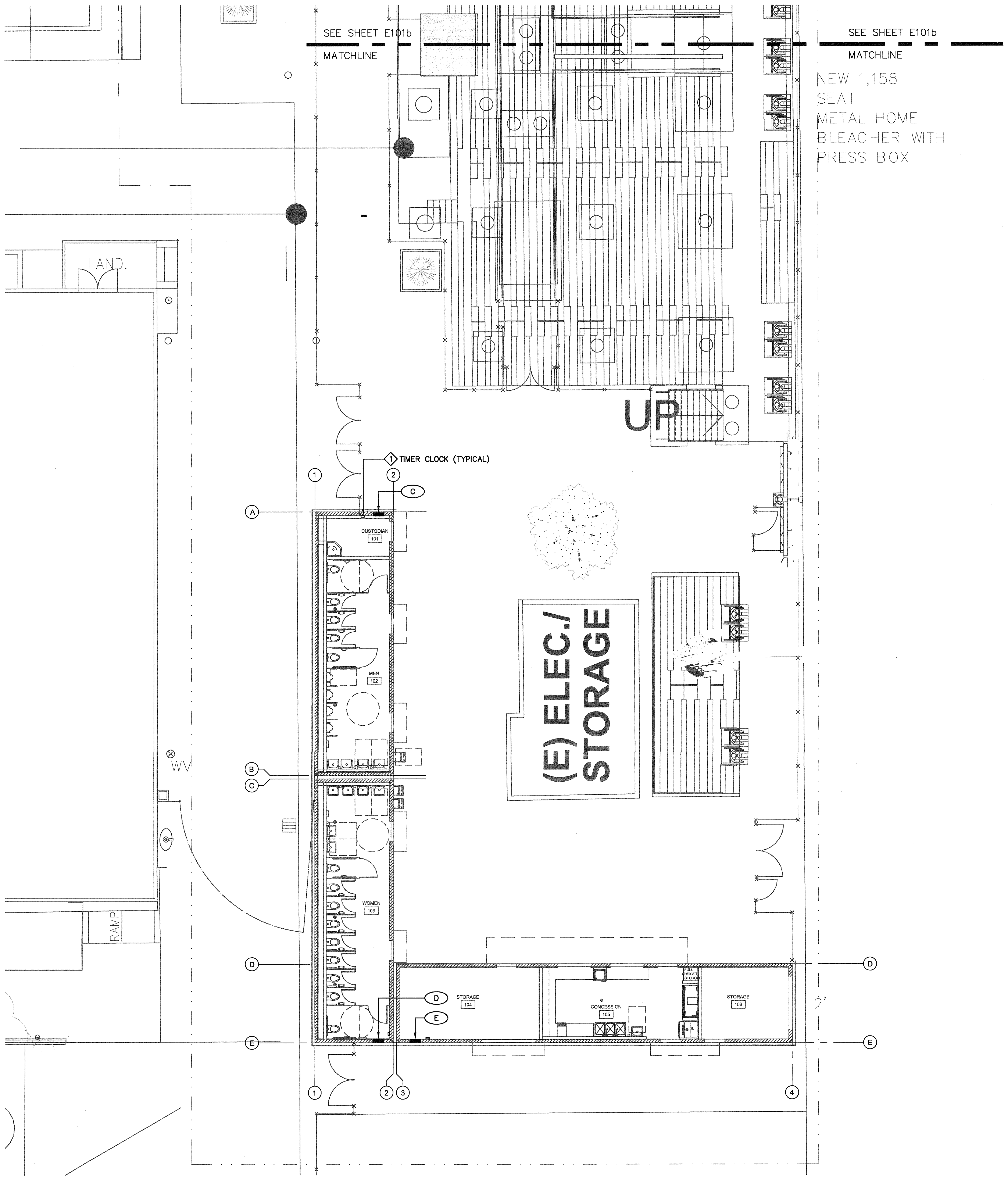

NORTH

ENLARGED TOILET BUILDING LIGHTING PLAN (HOME TEAM)

SCALE: 1/8"=1'-0"

1

GENERAL NOTES

1. ALL CONNECTION TO VIBRATING EQUIPMENT SHALL BE SEAL TYPE FLEXIBLE CONDUIT.
2. CONTRACTOR TO COORDINATE THE CONDUIT STUB UP LOCATION WITH THE APPROVED MECHANICAL SHOP DRAWINGS.
3. CONTRACTOR TO REFER TO APPROVED MECHANICAL SHOP DRAWINGS FORE THE EXACT REQUIREMENTS FOR THE SERVICE DISCONNECT SWITCH FRAME SIZE AND FUSES REQUIREMENTS.
4. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
5. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
6. REFER TO MECHANICAL PLANS FOR THE EXACT LOCATION OF ALL HVAC EQUIPMENT.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
    1. BRANCH CIRCUITS – LIGHTING AND POWER.
        a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
        b. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.
8. PROVIDE U.L. 924 CONTROL RELAY FOR EMERGENCY LIGHTING CONTROL.
9. CONTRACTOR TO FIELD VERIFY AND PROVIDE SERVICE DISCONNECT SWITCHES AT EXISTING CEILING MOUNTED WATER SOURCE HEAT PUMPS.
10. CONTRACTOR TO RECONNECT SERVICE FOR DUCT DETECTORS AT THE WATER SOURCE HEAT PUMP DUCTS.
11. EACH MULTI–WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISOCNNECT ALL UNDERGROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
12. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMODATE NEW DESIGN.

SPECIAL KEY NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.01 FOR LIGHTING CIRCUIT DETAILS

KEY NOTES

1. PROVIDE LC&D BLUE BOX LIGHTING CONTROL TIME SWITCH MOUNT IN ACCESSIBLE CEILING SPACE.

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
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SHEET NUMBER: **E101c**
SHEET TITLE:

ENLARGED TOILET BUILDING LIGHTING PLAN (HOME TEAM)

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T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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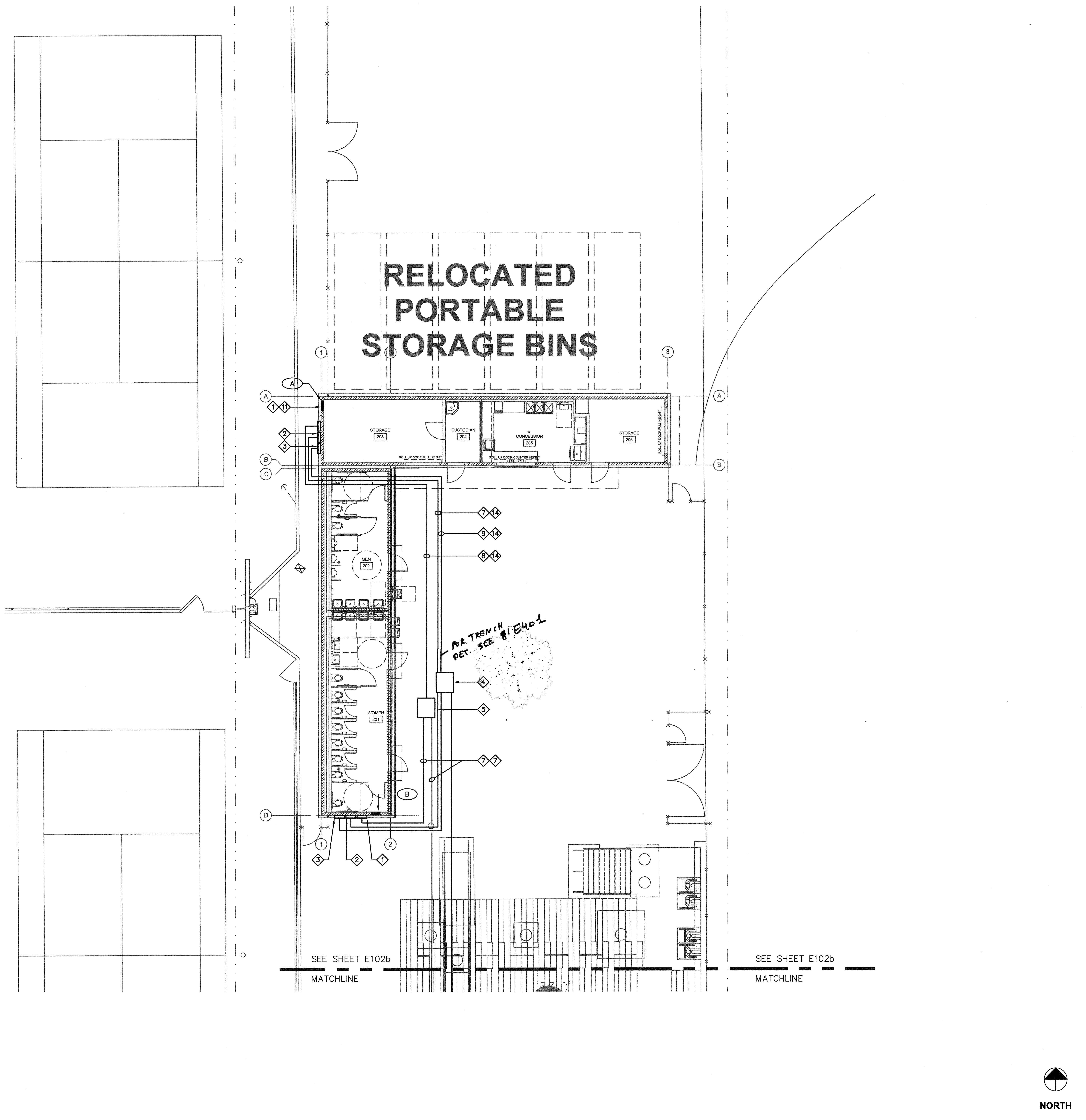

ENLARGED TOILET BUILDING POWER PLAN (VISITORS)

SCALE: 1/8"=1'-0"

1

GENERAL NOTES

1. CONTRACTOR TO COORDINATE POINT OF CONNECTION FOR SIGNAL SYSTWM WITH EXISTING CONDITIONS

SPECIAL KEY NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.02 FOR POWER CIRCUIT DETAILS

KEY NOTES

1. PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR POWER CIRCUIT CONNECTION TO PANEL BOARD.
2. PROVIDE 16" x 16" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR SIGNAL SYSTEM PA, CLOCK & SECURITY.
3. PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR DATA SYSTEM NETWORK.
4. PROVIDE 36" x 24" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR SIGNAL SYSTEM. PROVIDE BARRIERS FOR FIRE ALARM SYSTEM WIRING. ~~See 8/E401~~
5. PROVIDE 36" x 36" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR POWER SYSTEM WIRING.
6. EXISTING DISTRIBUTION BOARD "DBL".
7. PROVIDE NEW UNDERGROUND POWER SYSTEM CONDUIT AND WIRES, SEE SINGLE LINE DIAGRAM.
8. PROVIDE (3) 1 1/2" CONDUIT FOR SIGNAL SYSTEM PA SYSTEM, CLOCK & SECURITY.
9. PROVIDE 3" CONDUIT FOR DATA SYSTEM CONNECTIVELY.
10. NEW POWER SYSTEM UNDER GROUND CONDUITS AND WIRES TO NEW PULLBOX, SEE SINGLE LINE DIAGRAM AND REFER TO DUCT BANK DETAIL SHEET.
11. EXTEND CONDUIT AND CONDUCTORS TO PANEL BOARD AND MAKE ALL FINAL CONNECTIONS. REFER TO SINGLE LINE DIAGRAM FOR REQUIREMENTS.
12. PROVIDE (2) 2" CONDUIT WITH CABLES FOR DATA SYSTEM WIRING.
13. PROVIDE WALL MOUNTED DATA SYSTEM RACK WITH PATCH PANELS WITH 12 STRANDS OF MULTI MEDIA MODE FIBER TO "MDF".
14. REFER TO TYPICAL CONDUIT STUB UP AND DUCT BANK DETAIL ON SHEET E401 DETAIL #7 AND #8

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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DATE ISSUED: 01-23-2017
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SHEET NUMBER: E102a
SHEET TITLE:

ENLARGED TOILET BUILDING POWER PLAN

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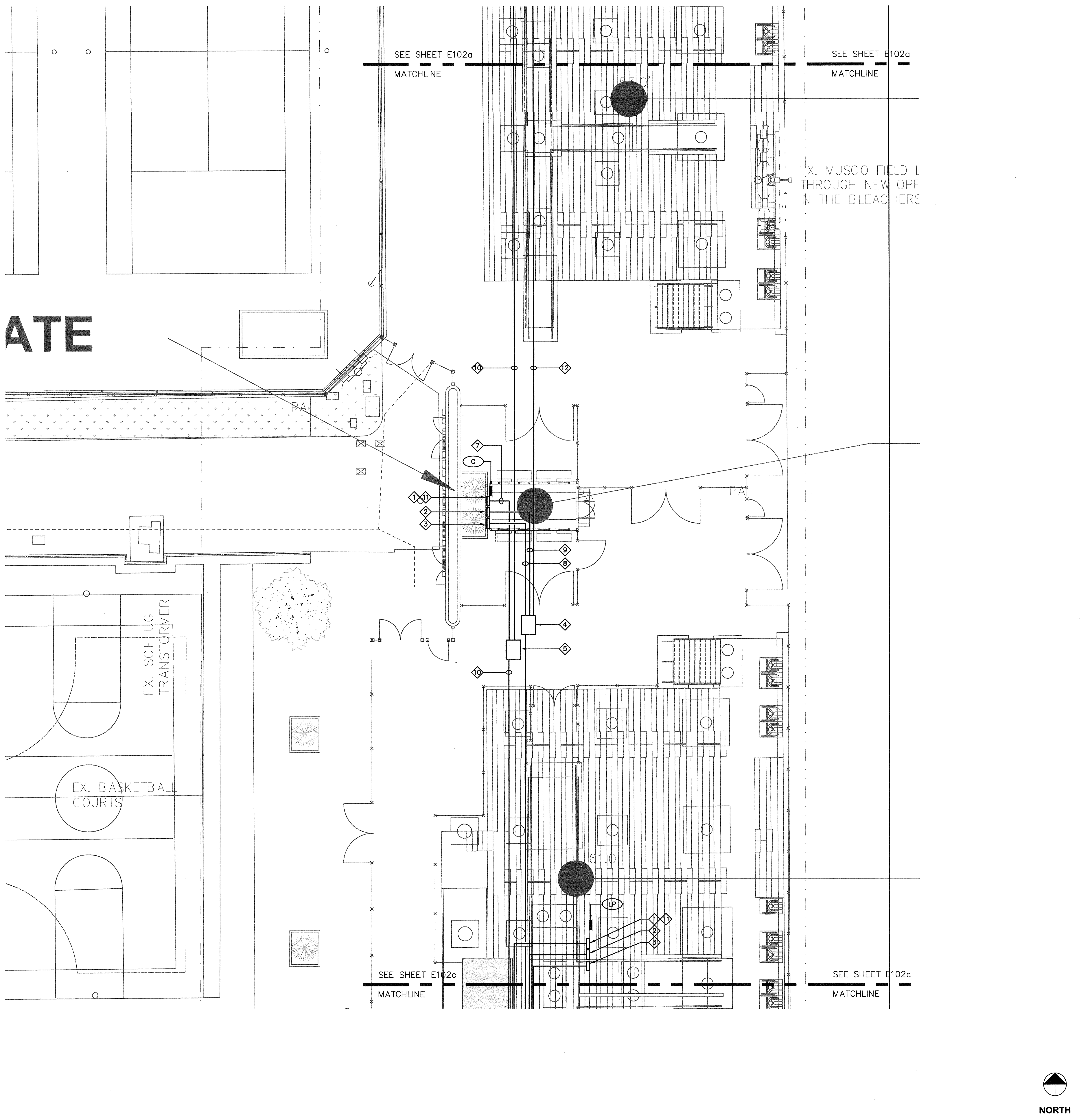

ENLARGED POWER SITE PLAN

SCALE: 1/8"=1'-0"

1

GENERAL NOTES

1. CONTRACTOR TO COORDINATE POINT OF CONNECTION FOR SIGNAL SYSTWM WITH EXISTING CONDITIONS

SPECIAL KEY NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.01 FOR POWER CIRCUIT DETAILS

KEY NOTES

◇1	PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR POWER CIRCUIT CONNECTION TO PANEL BOARD.
◇2	PROVIDE 16" x 16" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR SIGNAL SYSTEM PA, CLOCK & SECURITY.
◇3	PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR DATA SYSTEM NETWORK.
◇4	PROVIDE 36" x 24" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR SIGNAL SYSTEM. PROVIDE BARRIERS FOR FIRE ALARM SYSTEM WIRING.
◇5	PROVIDE 36" x 36" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR POWER SYSTEM WIRING.
◇6	EXISTING DISTRIBUTION BOARD "DBL".
◇7	PROVIDE NEW UNDERGROUND POWER SYSTEM CONDUIT AND WIRES, SEE SINGLE LINE DIAGRAM.
◇8	PROVIDE (3) 1 1/2" CONDUIT FOR SIGNAL SYSTEM PA SYSTEM, CLOCK & SECURITY.
◇9	PROVIDE 3" CONDUIT FOR DATA SYSTEM CONNECTIVELY.
◇10	NEW POWER SYSTEM UNDER GROUND CONDUITS AND WIRES TO NEW PULLBOX, SEE SINGLE LINE DIAGRAM AND REFER TO DUCT BANK DETAIL SHEET.
◇11	EXTEND CONDUIT AND CONDUCTORS TO PANEL BOARD AND MAKE ALL FINAL CONNECTIONS. REFER TO SINGLE LINE DIAGRAM FOR REQUIREMENTS.
◇12	PROVIDE (2) 2" CONDUIT WITH CABLES FOR DATA SYSTEM WIRING.
◇13	PROVIDE WALL MOUNTED DATA SYSTEM RACK WITH PATCH PANELS WITH 12 STRANDS OF MULTI MEDIA MODE FIBER TO "MDF".

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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DATE ISSUED: 01-23-2017
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SHEET NUMBER: **E102b**
SHEET TITLE:

ENLARGED POWER SITE PLAN

E17249
EXP. 06-30-2018
ELECTRICAL

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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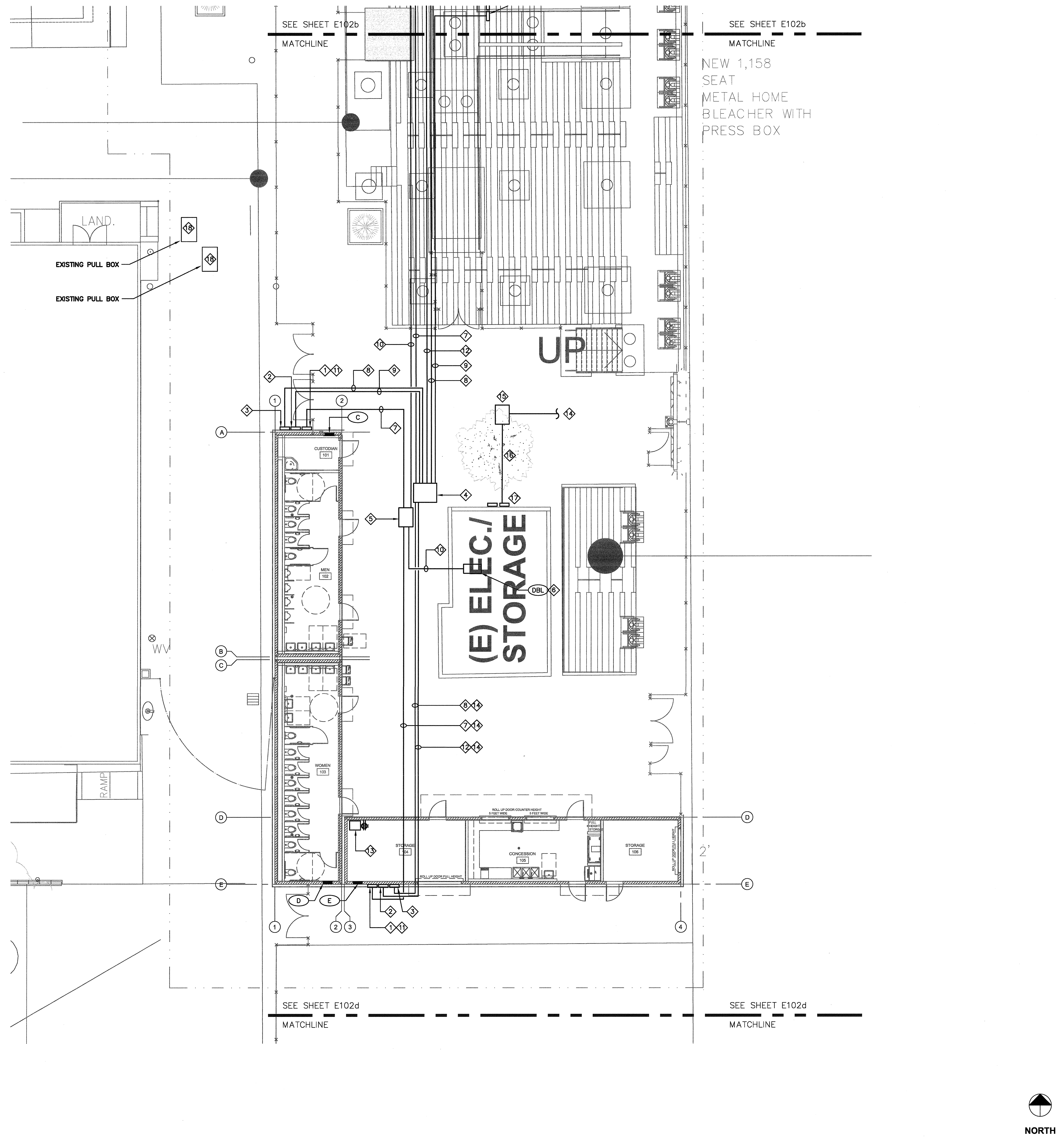

ENLARGED TOILET BUILDING POWER PLAN (HOME TEAM)

SCALE: 1/8"=1'-0"

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GENERAL NOTES

1. CONTRACTOR TO COORDINATE POINT OF CONNECTION FOR SIGNAL SYSTEM WITH EXISTING CONDITION
2. CONTRACTOR TO RELOCATE THE EXISTING SPRINKLER SYSTEM CONTROLLER POWER FEED FROM THE EXISTING DEMO SPACE AND RELOCATE AS DIRECTED BY THE SPRINKLER SYSTEM CONSULTANT AS PART OF THIS PROJECT SCOPE OF WORK.

SPECIAL NOTES

SEE SILVER CREEK PREFABRICATED BUILDING LAYOUT SHEET E-1.01 FOR POWER CIRCUIT DETAILS

KEY NOTES

① PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR POWER CIRCUIT CONNECTION TO PANEL BOARD.

② PROVIDE 16" x 16" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR SIGNAL SYSTEM PA, CLOCK & SECURITY.

③ PROVIDE 14" x 14" x 8" D. WEATHER PROOF NEMA 3R PULLBOX WITH TAMPER RESISTANT SCREW DOWN COVER FOR DATA SYSTEM NETWORK.

④ PROVIDE 36" x 24" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR SIGNAL SYSTEM. PROVIDE BARRIERS FOR FIRE ALARM SYSTEM WIRING.

⑤ PROVIDE 36" x 36" x 3' DEEP CONCRETE PULLBOX WITH H20 COVER FOR POWER SYSTEM WIRING.

⑥ EXISTING DISTRIBUTION BOARD "DBL".

⑦ PROVIDE NEW UNDERGROUND POWER SYSTEM CONDUIT AND WIRES, SEE SINGLE LINE DIAGRAM.

⑧ PROVIDE (3) 1 1/2" CONDUIT FOR SIGNAL SYSTEM PA SYSTEM, CLOCK & SECURITY.

⑨ PROVIDE 3" CONDUIT FOR DATA SYSTEM CONNECTIVELY.

⑩ NEW POWER SYSTEM UNDER GROUND CONDUITS AND WIRES TO NEW PULLBOX, SEE SINGLE LINE DIAGRAM AND REFER TO DUCT BANK DETAIL SHEET.

⑪ EXTEND CONDUIT AND CONDUCTORS TO PANEL BOARD AND MAKE ALL FINAL CONNECTIONS. REFER TO SINGLE LINE DIAGRAM FOR REQUIREMENTS.

⑫ PROVIDE (2) 2" CONDUIT WITH CABLES FOR DATA SYSTEM WIRING.

⑬ PROVIDE WALL MOUNTED DATA SYSTEM RACK WITH PATCH PANELS WITH 12 STRANDS OF MULTI MEDIA MODE FIBER TO "MDF".

⑭ EXISTING CONDUIT AND WIRES RUN TO ATHLETIC FIELD LIGHTING.

⑮ PROVIDE A INTERCEPT PULL BOX 24"X24"X36"DEEP WITH H20 TRAFFIC COVER.

⑯ EXTEND CONDUIT AND WIRES TO THE NEW LOCATION OF THE MOSCO LIGHTING CONTROL PANEL AND CONTROL SYSTEM AS PART OF THIS PROJECT SCOPE OF WORK CONTRACTOR TO VERIFY FIELD CONDITIONS AT TIME OF BID.

⑰ NEW LOCATION OF EXISTING RELOCATED MOSCO CONTROL PANEL AND CONTROLLER.

⑱ EXISTING PULLBOX, CONTRACTOR TO MAKE CONNECTION FOR SIGNAL SYSTEMS.

E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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SHEET NUMBER: E102c
SHEET TITLE:

ENLARGED TOILET BUILDING POWER PLAN

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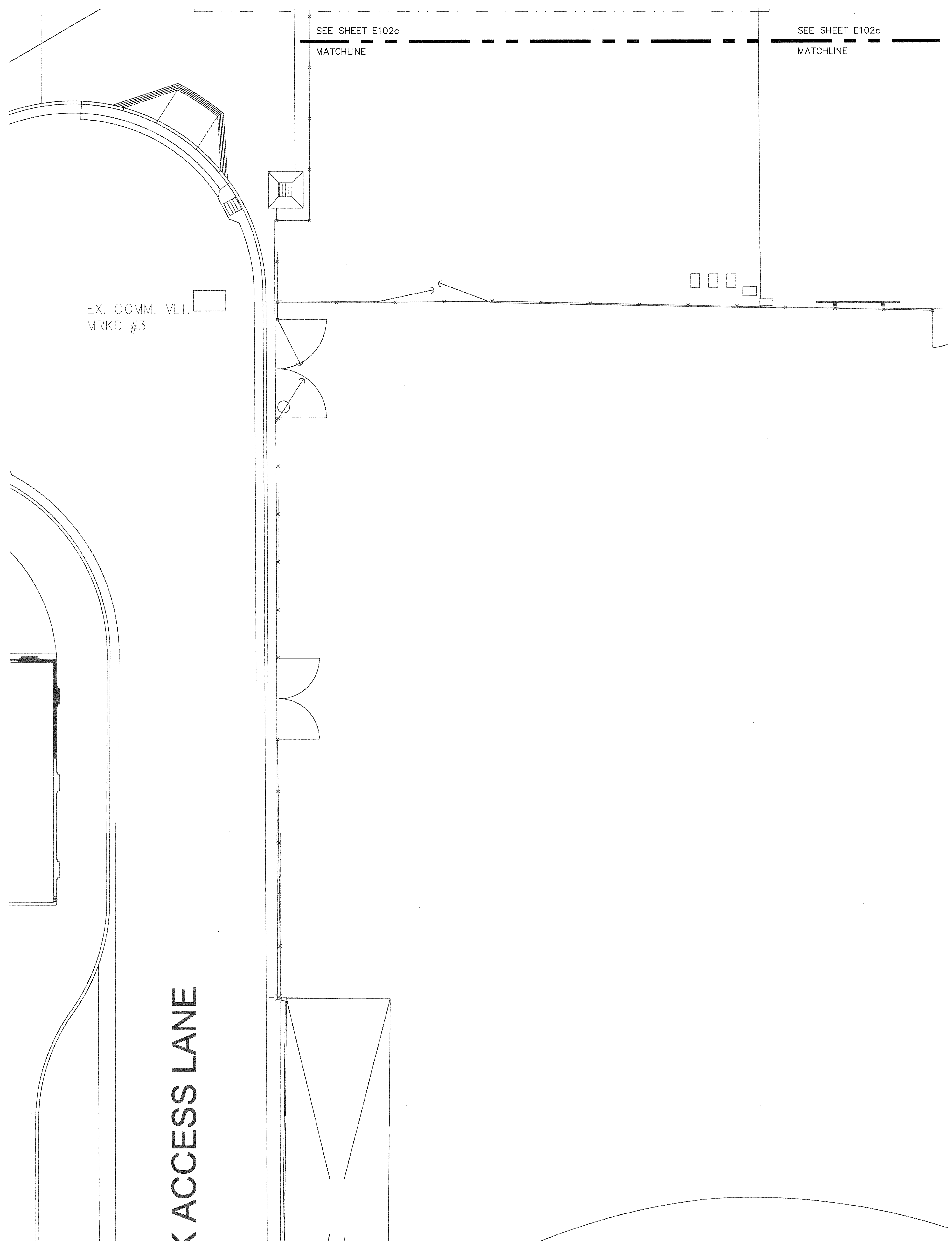

FOR REFERENCE ONLY

NORTH

ENLARGED PARTIAL POWER SITE PLAN

SCALE:	
1/8"=1'-0"	1

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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SHEET NUMBER: E102d
SHEET TITLE:

ENLARGED PARTIAL POWER SITE PLAN

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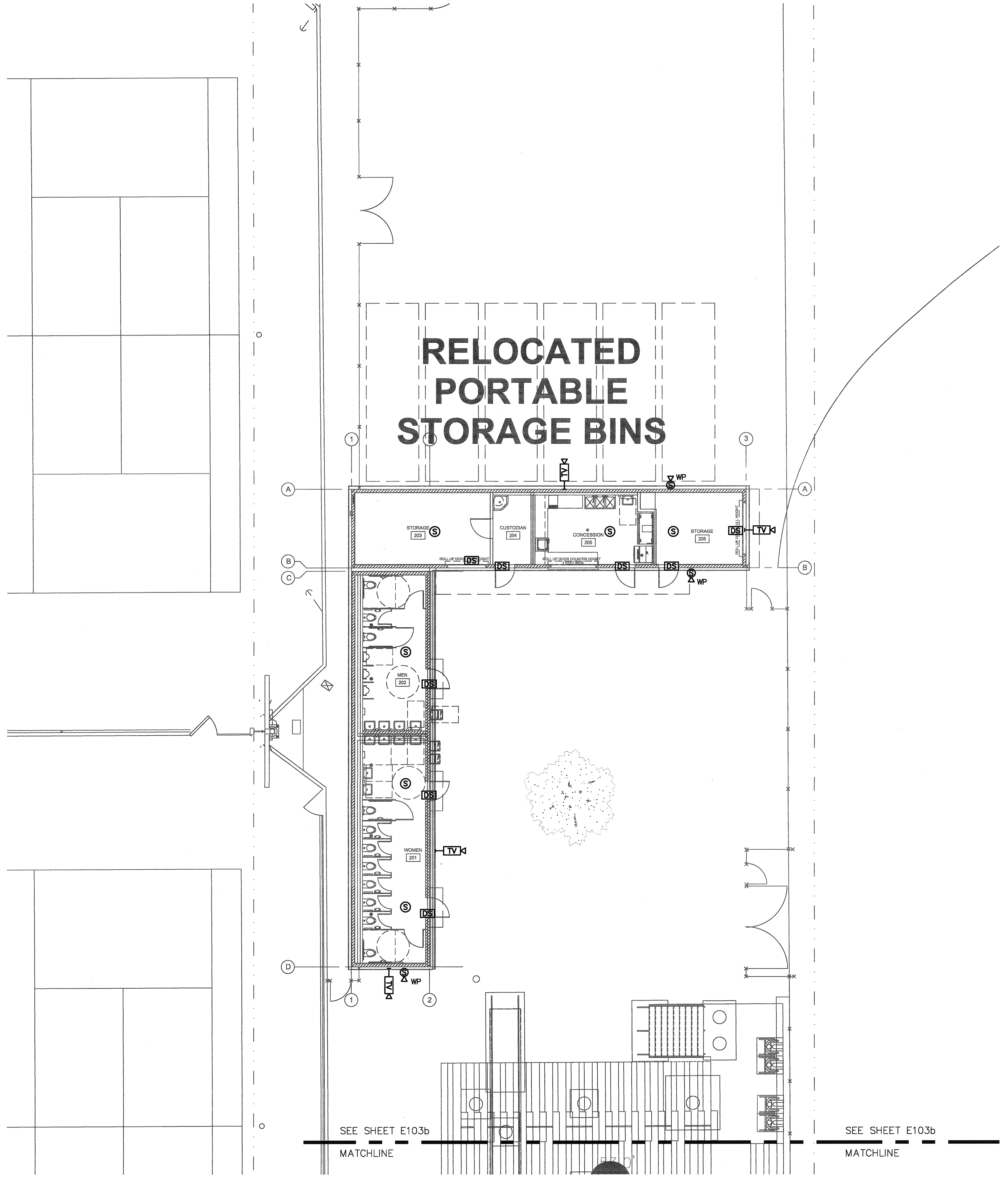
GENERAL NOTES

1. ALL SIGNAL SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION



NORTH

ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (VISITORS)

SCALE: 1/8"=1'-0"

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EXP. 06-30-2018
ELECTRICAL

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

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SHEET NUMBER: E103a
SHEET TITLE:

ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (VISITORS)

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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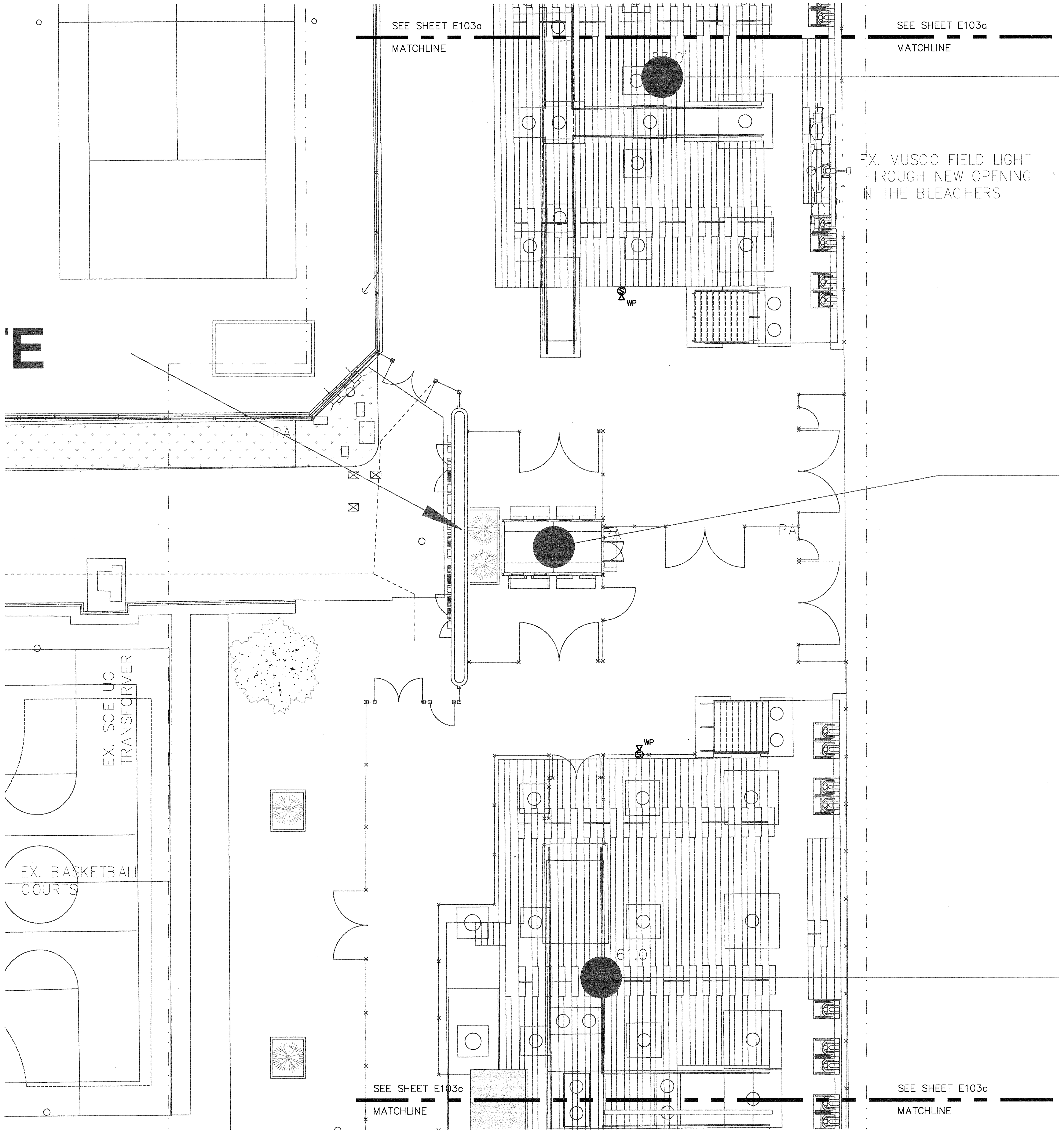
GENERAL NOTES

1. ALL SIGNAL SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION



NORTH

ENLARGED BLEACHERS SIGNAL SYSTEM PLAN

SCALE: 1/8"=1'-0"

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EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

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SHEET NUMBER: **E103b**
SHEET TITLE:

ENLARGED BLEACHERS SIGNAL SYSTEM PLAN

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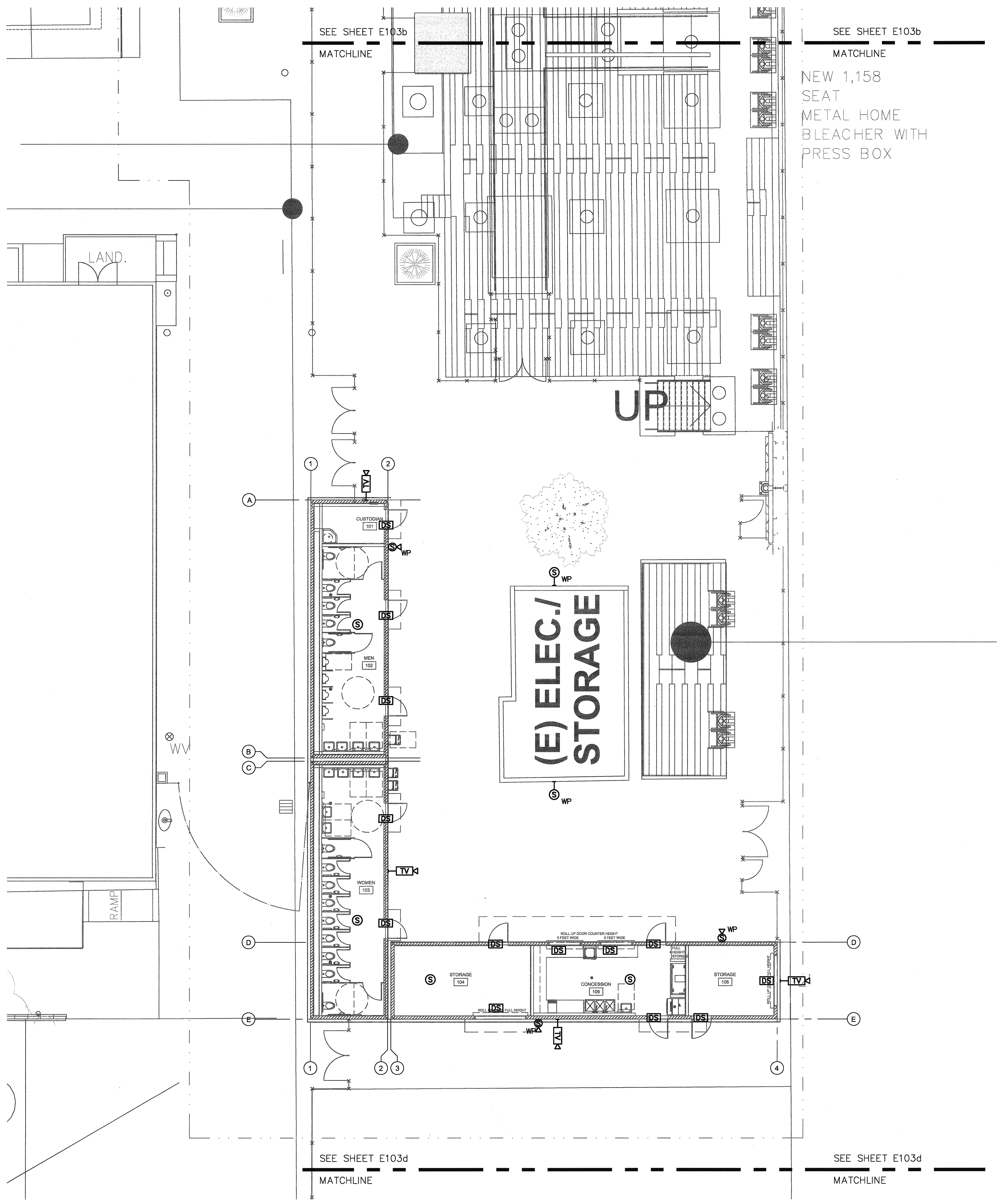
GENERAL NOTES

1. ALL SIGNAL SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION



ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (HOME TEAM)

SCALE: 1/8"=1'-0"

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EXP. 06-30-2018
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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

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PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E103c
SHEET TITLE:

ENLARGED TOILET BUILDING SIGNAL SYSTEM PLAN (HOME TEAM)

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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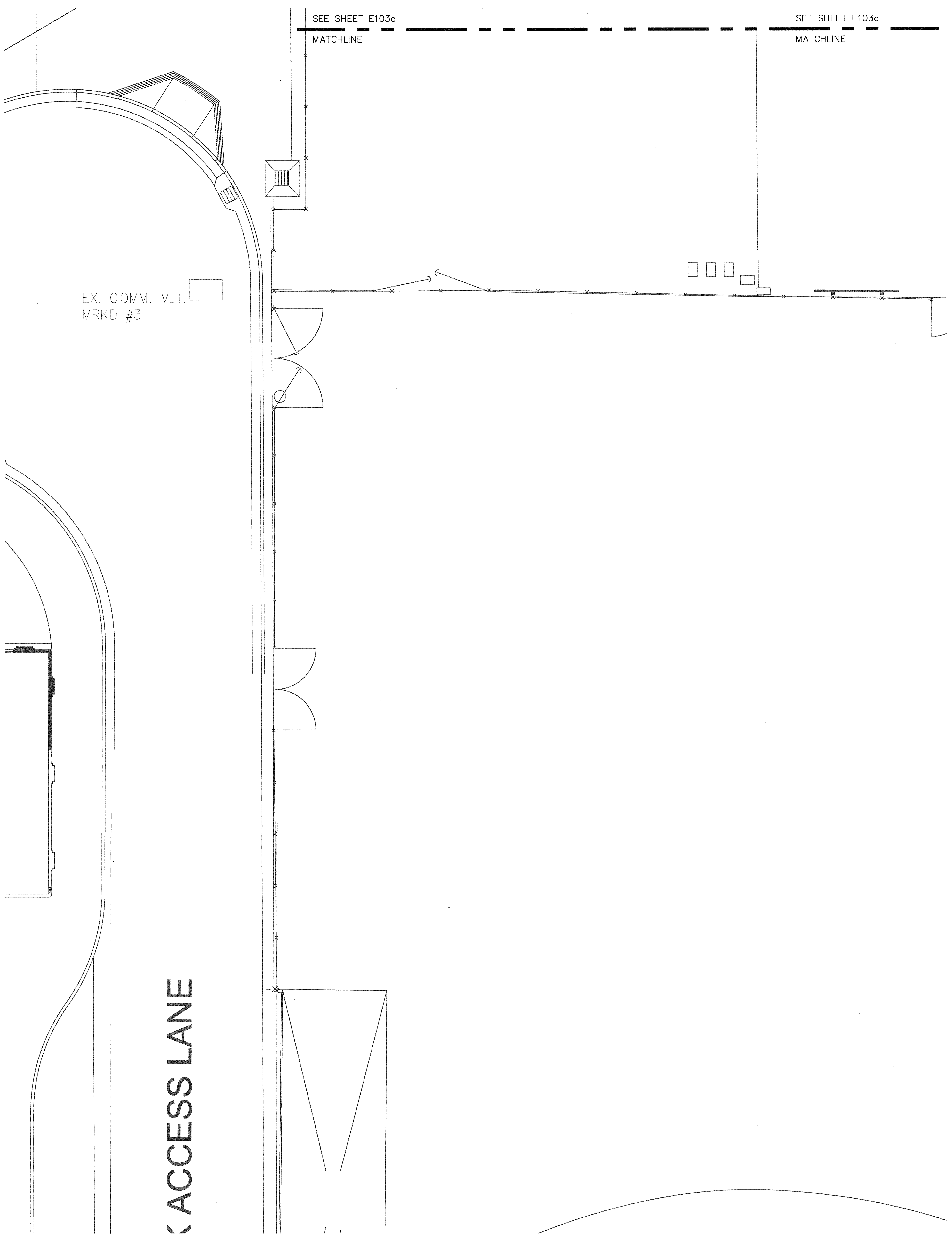

FOR REFERENCE ONLY

NORTH

ENLARGED SIGNAL SITE PLAN

SCALE:
1/8"=1'-0"

1

E17249
EXP. 06-30-2018

P: \P-2014\2014-115-00\MPE\E103d.dwg Dec 01, 2016 - 4:55pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS
ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC_____ FLS ____ SS ____
DATE FEB 0 3 2017
FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

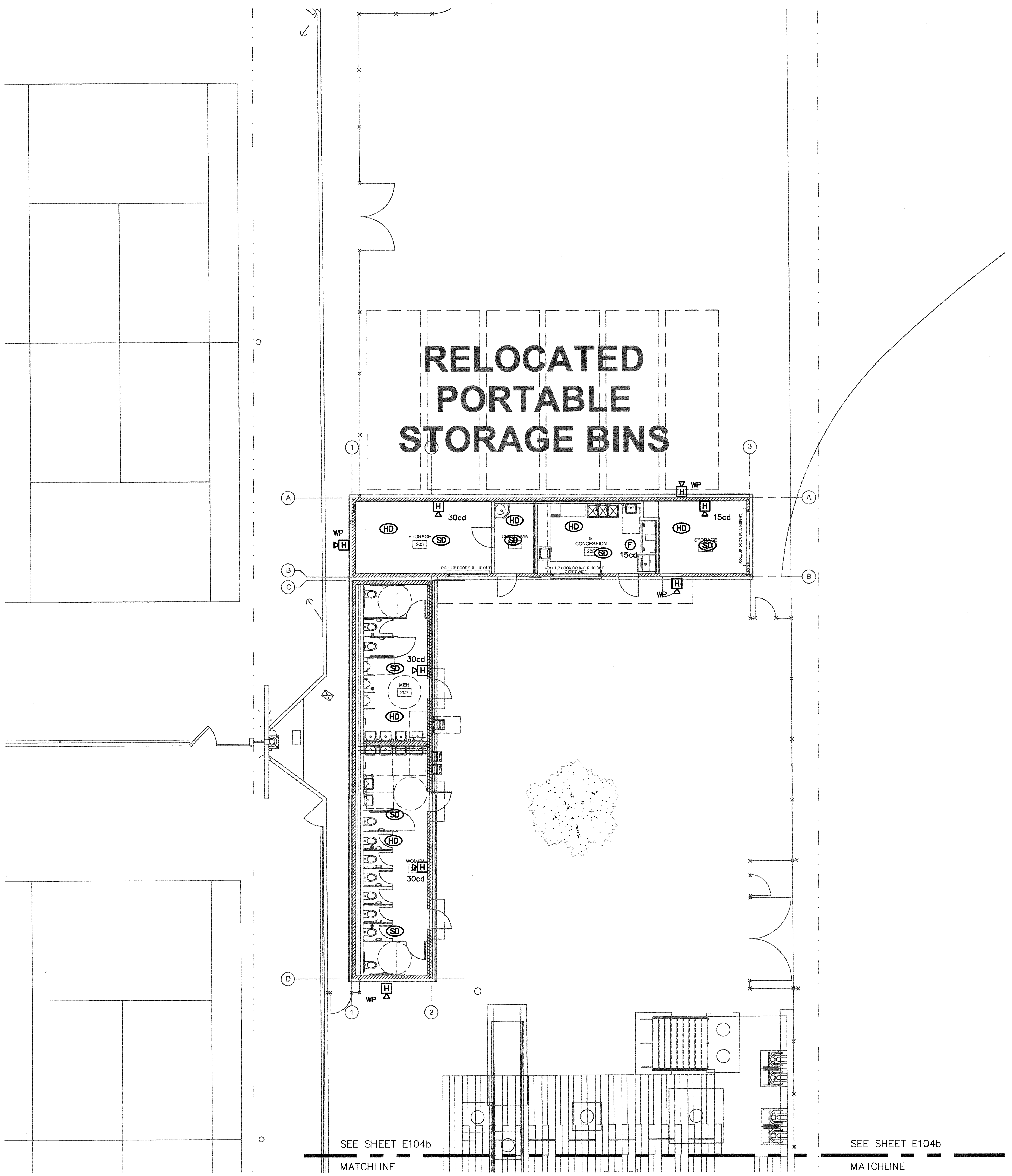
SHEET NUMBER: E103d
SHEET TITLE:

ENLARGED SIGNAL SITE PLAN

SVA
ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

GENERAL NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION



NORTH

ENLARGED TOILET BUILDING FIRE ALARM PLAN (VISITORS)

SCALE: 1/8"=1'-0"

1

E17249
EXP. 06-30-2018
KUNAL G. SHAH

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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AC______ FLS ______ SS ______
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E104a

SHEET TITLE:

ENLARGED TOILET BUILDING FIRE ALARM PLAN (VISITORS)

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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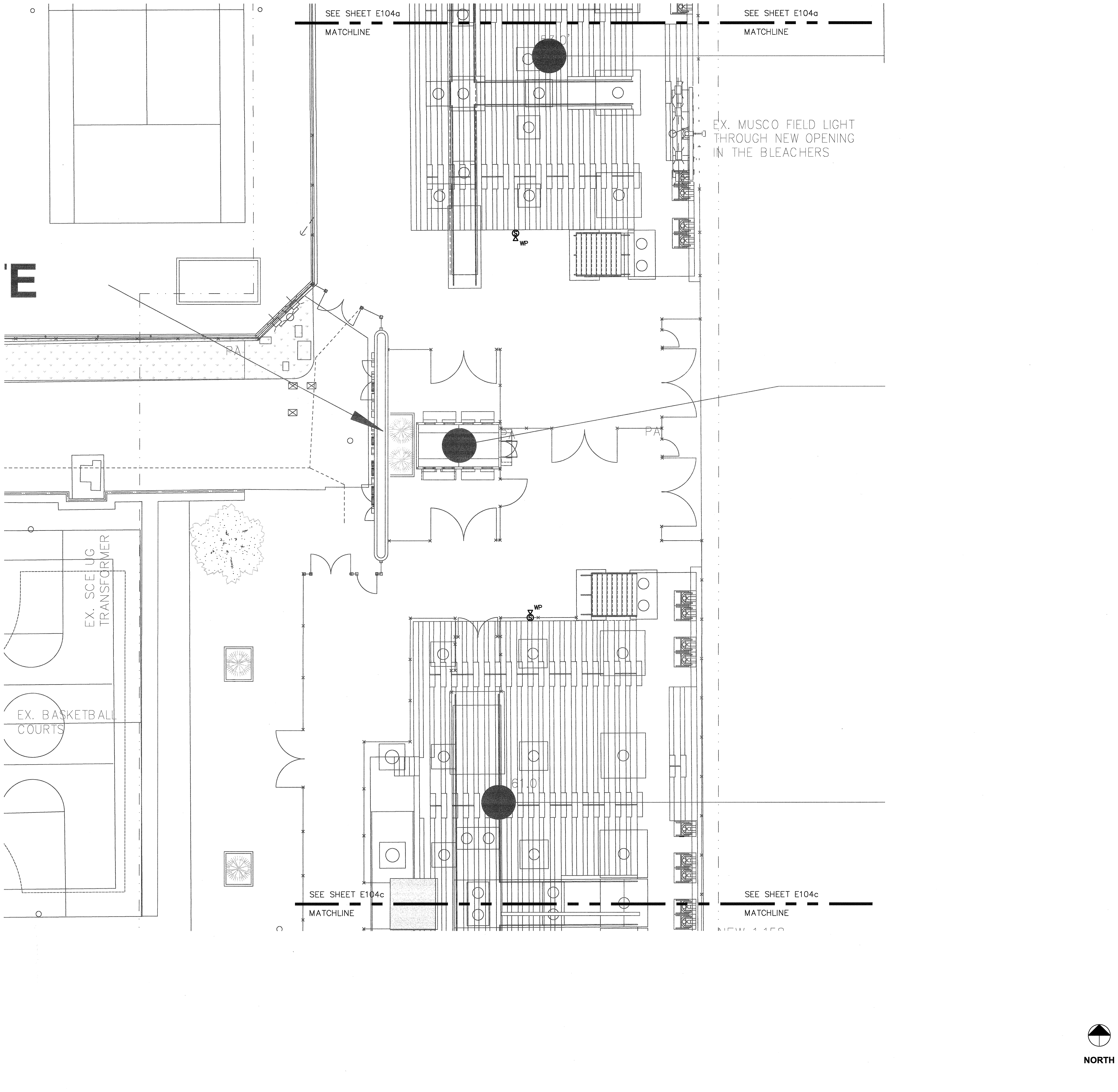
GENERAL NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION.



ENLARGED BLEACHERS FIRE ALARM PLAN

SCALE: 1/8"=1'-0"

1

KUNAL G. SHAH
E17249
EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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AC______ FLS ______ SS ______
DATE FEB 0 3 2017
FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E104b
SHEET TITLE:

ENLARGED BLEACHERS FIRE ALARM PLAN

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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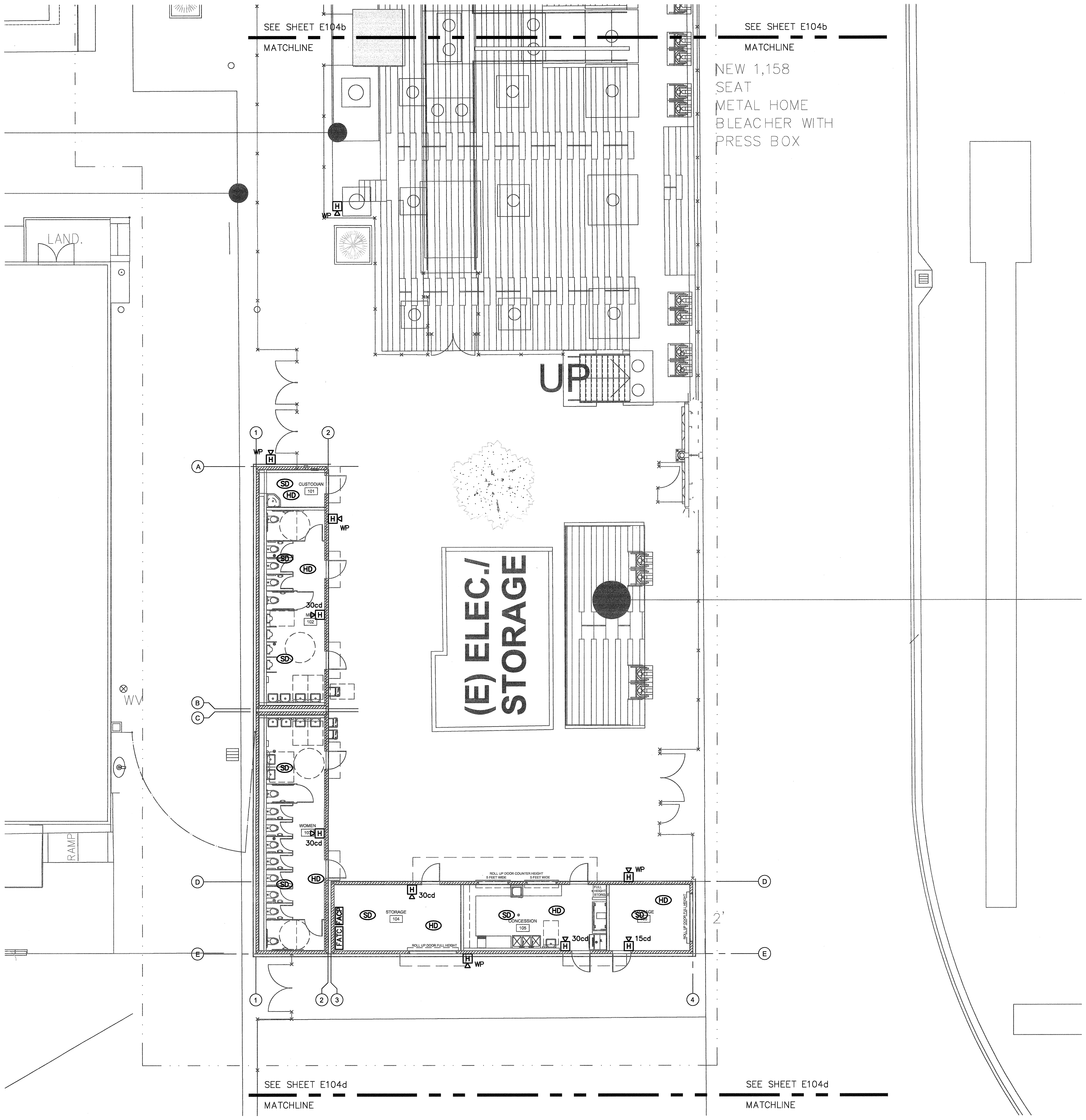
GENERAL NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION.



NORTH

ENLARGED TOILET BUILDING FIRE ALARM PLAN (HOME TEAM)

SCALE:
1/8"=1'-0"

1

E17249
EXP. 06-30-2018

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OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS ______ SS ______
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FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

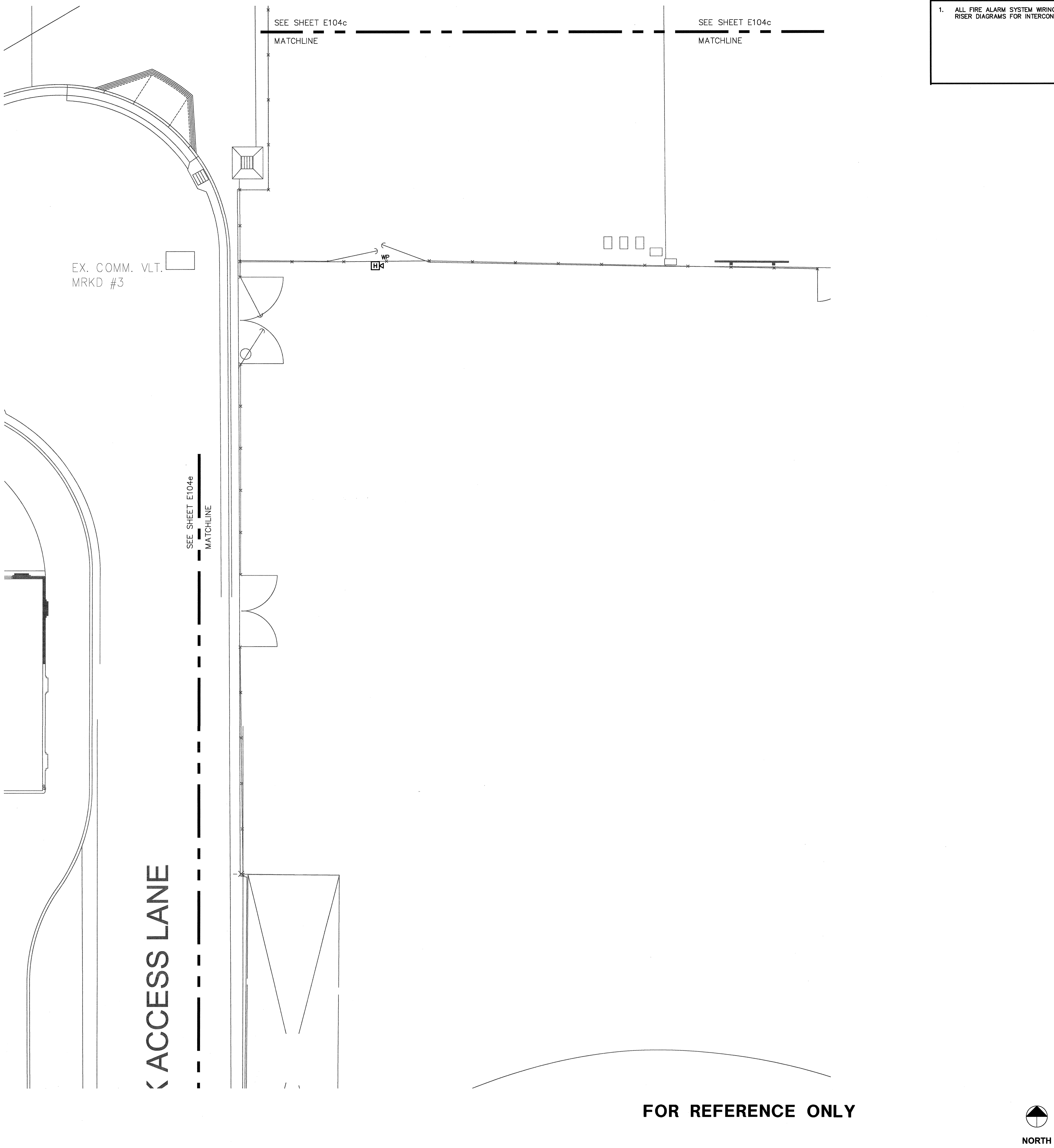
SHEET NUMBER: E104c
SHEET TITLE:

ENLARGED TOILET BUILDING FIRE ALARM PLAN (HOME TEAM)

SVA
ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

GENERAL NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT REFER TO RISER DIAGRAMS FOR INTERCONNECTION



FOR REFERENCE ONLY

ENLARGED FIRE ALARM SITE PLAN

SCALE:
1/8"=1'-0"

1

E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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A# 03-117117
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DATE FEB 0 3 2017
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E104d
SHEET TITLE:

ENLARGED FIRE ALARM SITE PLAN

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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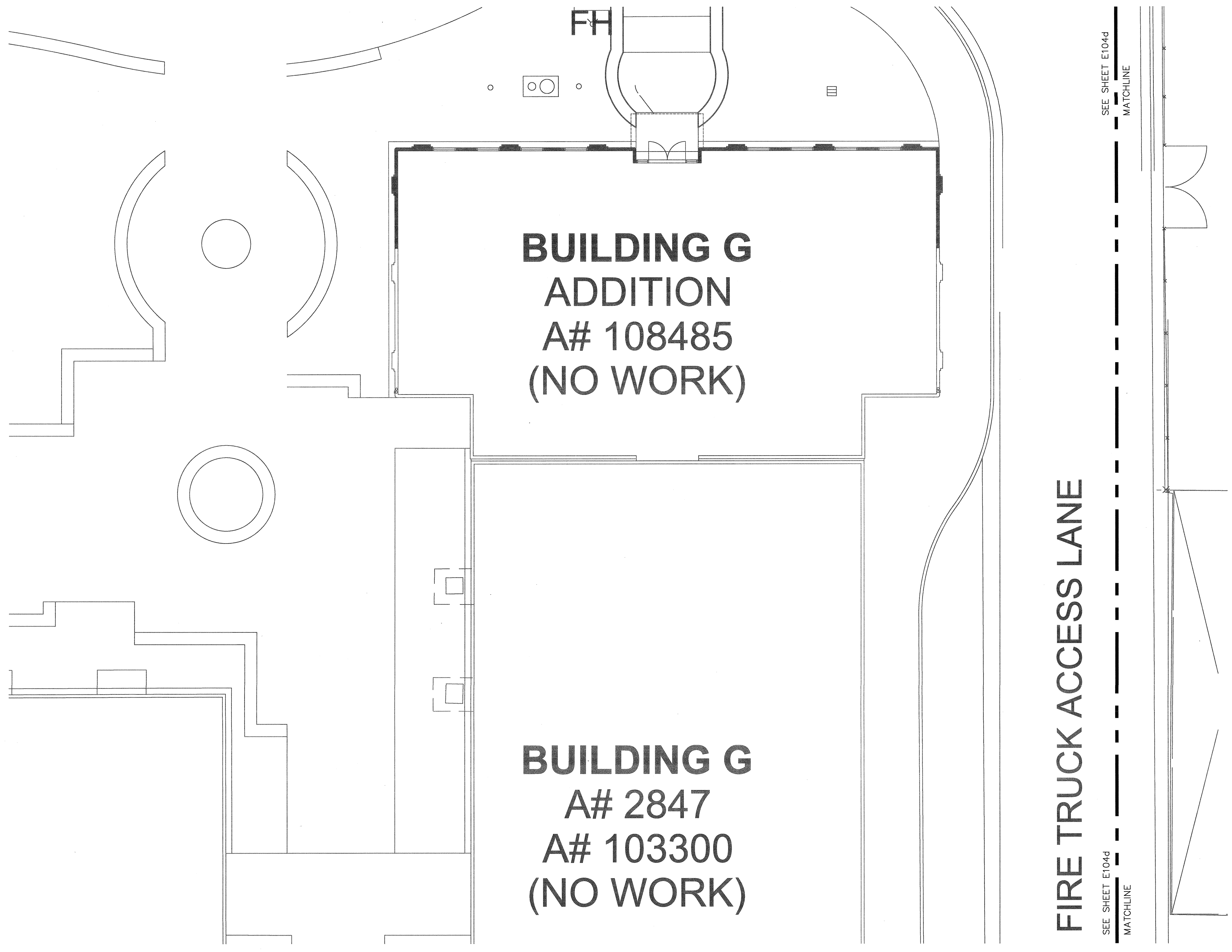

FOR REFERENCE ONLY

ENLARGED FIRE ALARM SITE PLAN

SCALE: 1/8"=1'-0" 1

E17249
EXP. 06-30-2018

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **E104e**
SHEET TITLE:

ENLARGED FIRE ALARM SITE PLAN

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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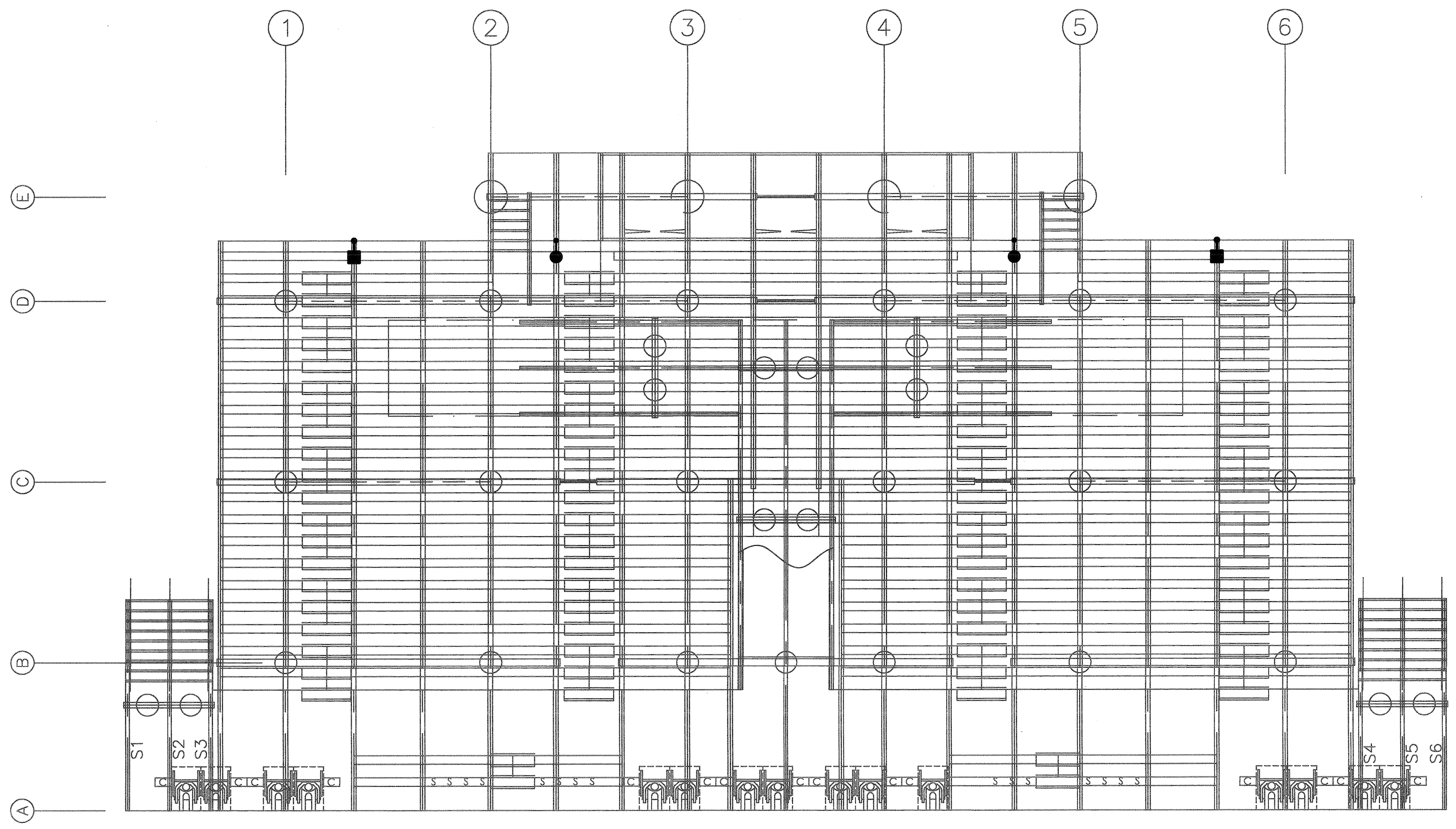
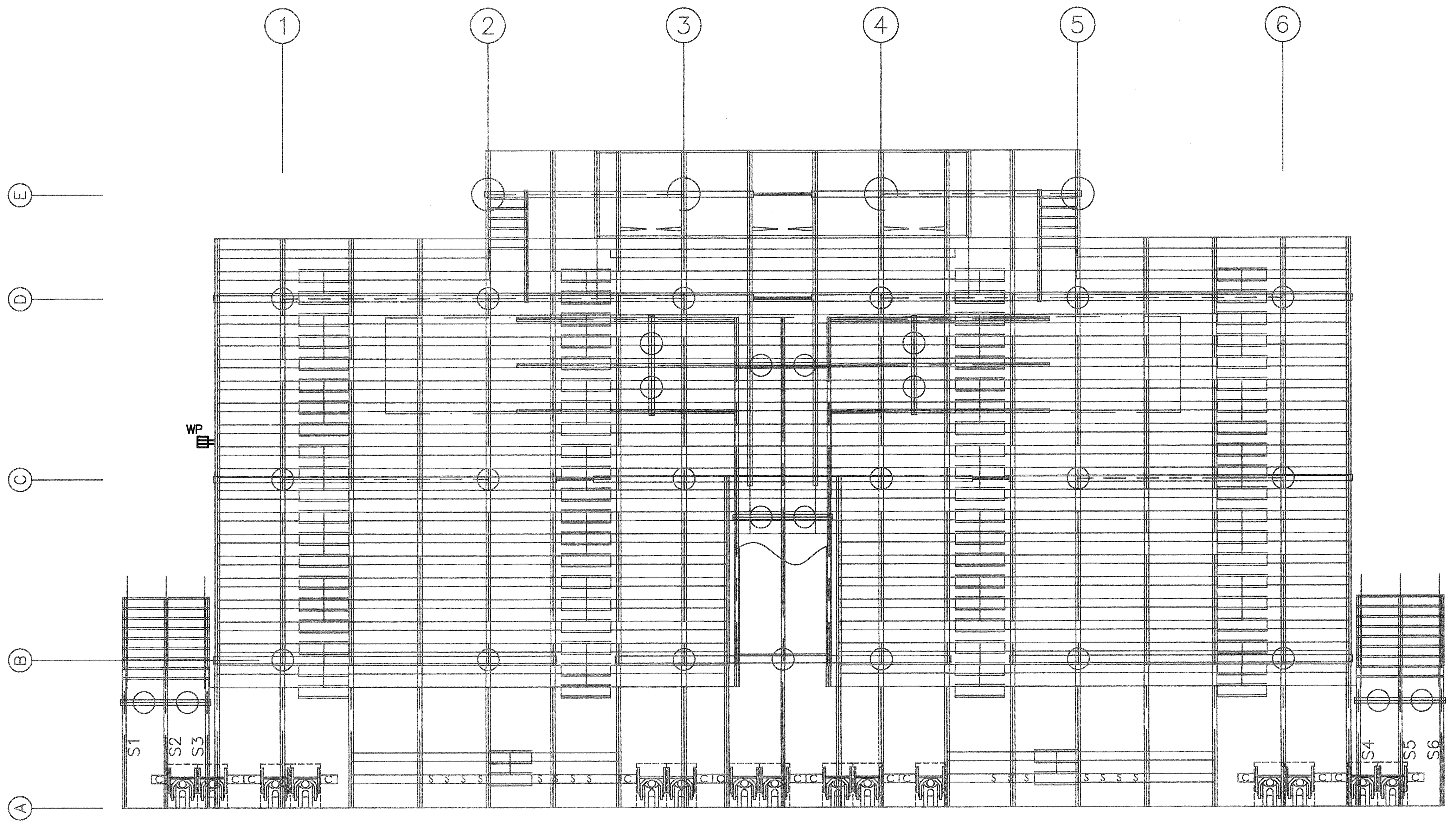


HOME BLEACHERS - LIGHTING PLAN

SCALE: 1/8"=1'-0" 1



HOME BLEACHERS - POWER/SIGNAL PLAN

SCALE: 1/8"=1'-0" 2

P:\P-2014\2014-115-00\MPE\E201.dwg Dec 01, 2016 - 4:56pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
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A# 03-117117
AC____ FLS KD SS ____
DATE FEB 0 3 2017
FILE # 19-H10

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

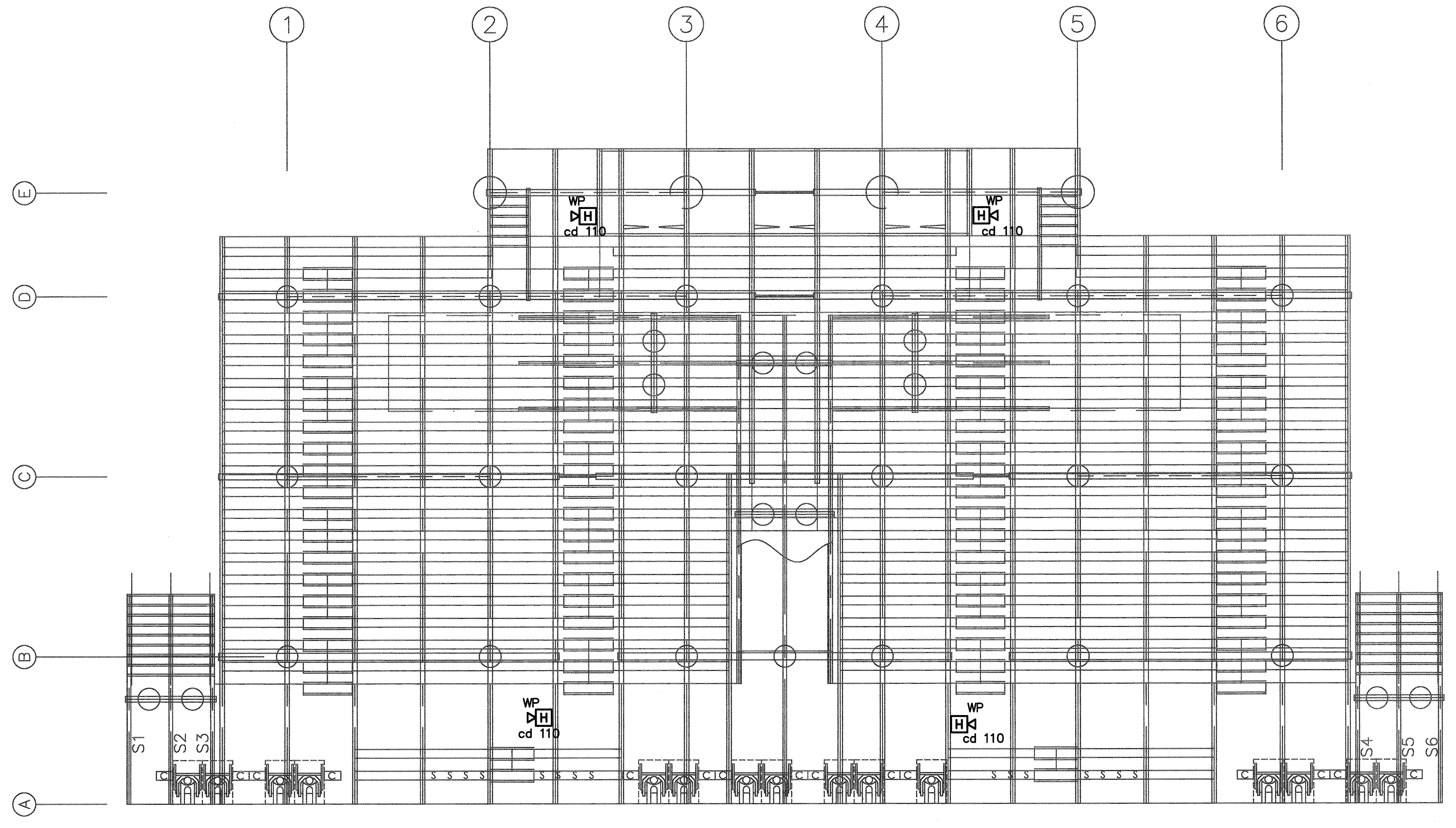
SHEET NUMBER: **E201**

SHEET TITLE:

HOME BLEACHERS LIGHTING & POWER/SIGNAL PLANS

KUNAL G. SHAH
E17249
EXP. 06-30-2018
ELECTRICAL

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



NORTH

HOME BLEACHERS - FIRE ALARM PLAN

SCALE:
1/8"=1'-0"

1

E17249
EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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Job No. 2014-115-00

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OFFICE OF REGULATION SERVICES
A# 03-117117
AC____ FLS EY SS
DATE FEB 0 3 2017
FILE # 19-H10

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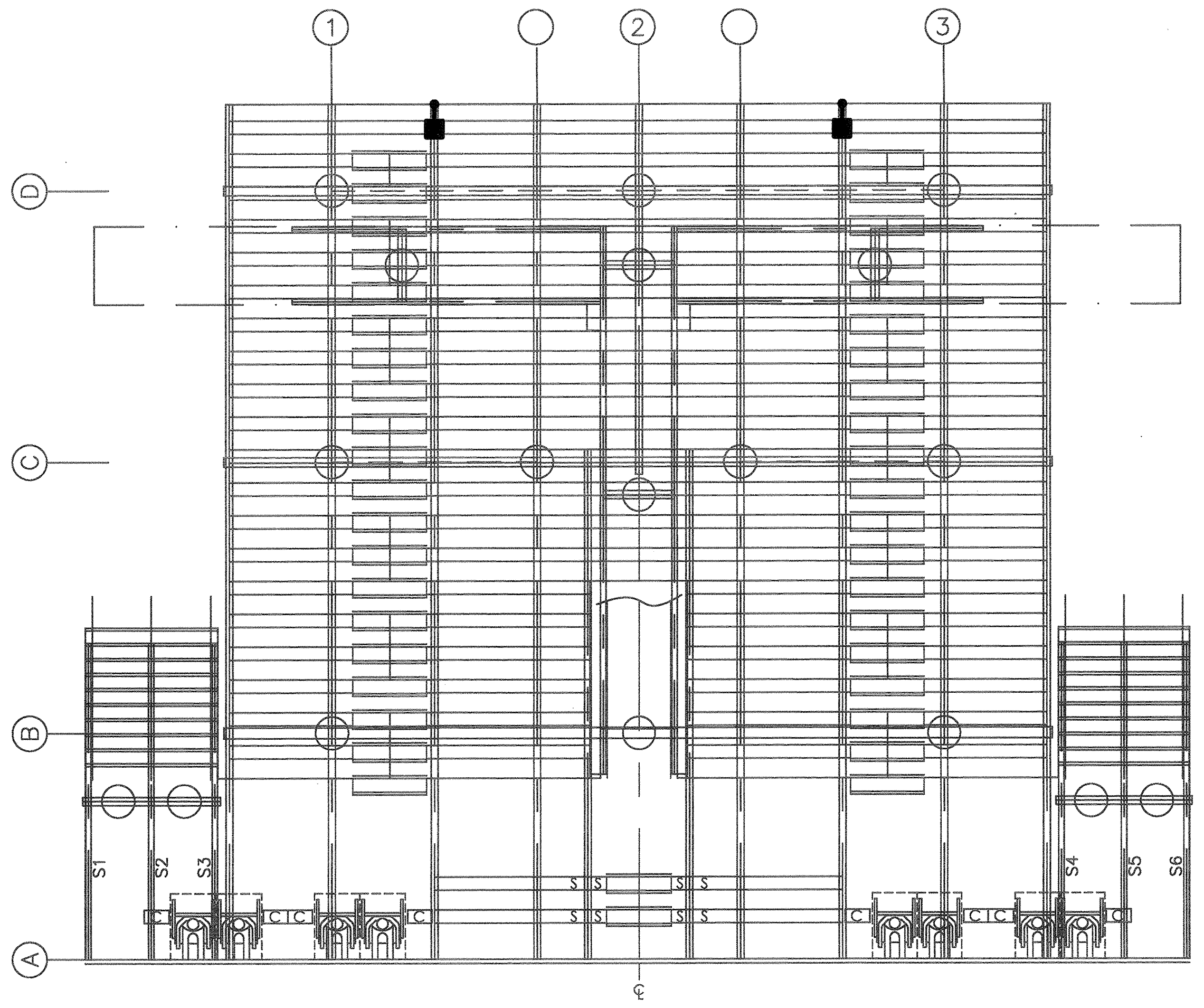
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: **E202**
SHEET TITLE:

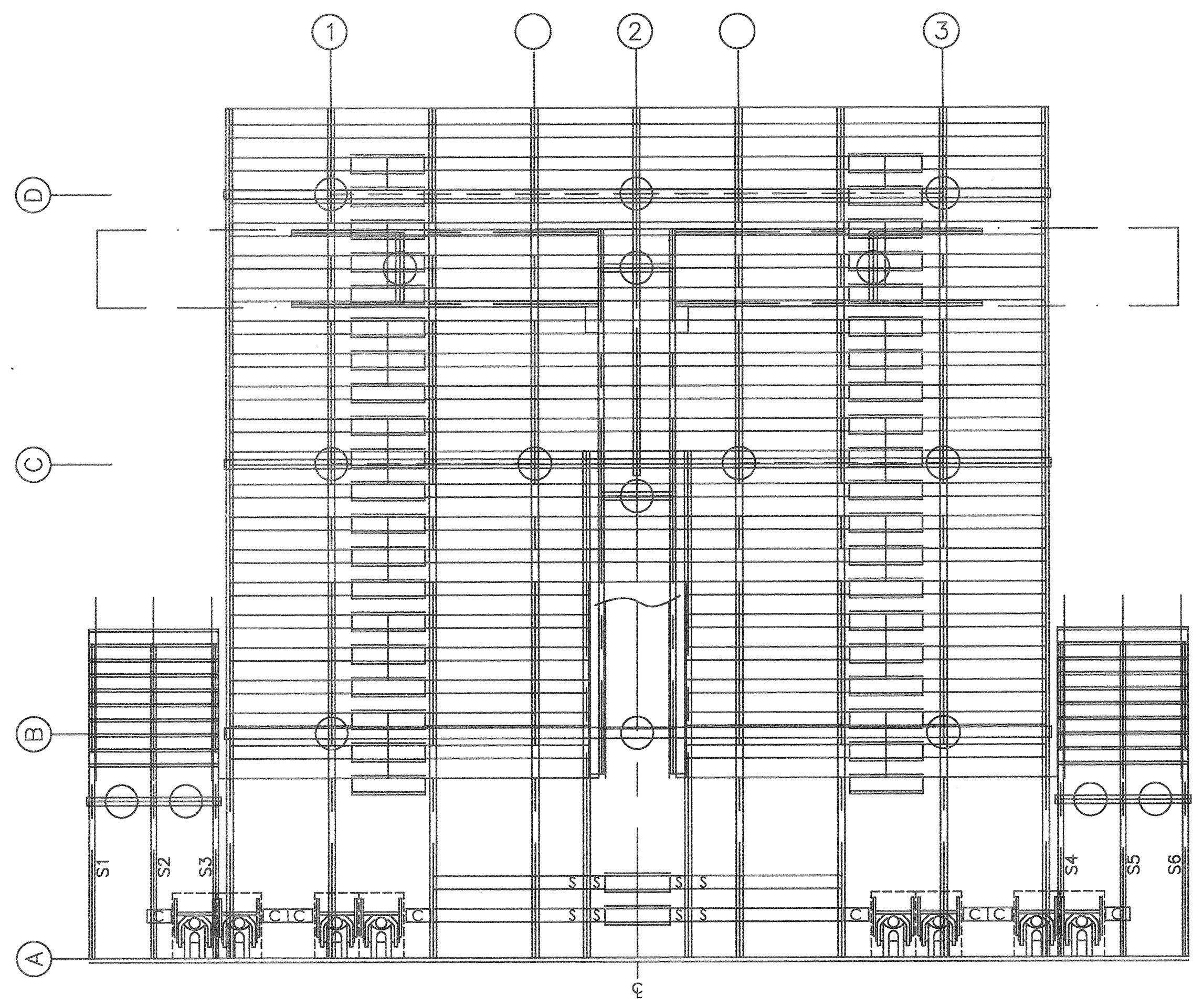
HOME BLEACHERS FIRE ALARM PLAN

SVA
ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



VISITORS BLEACHERS - LIGHTING PLAN

SCALE: 1/8"=1'-0" | 1



VISITORS BLEACHERS - POWER/SIGNAL PLAN

SCALE: 1/8"=1'-0" | 2

E17249
EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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Job No. 2014-115-00

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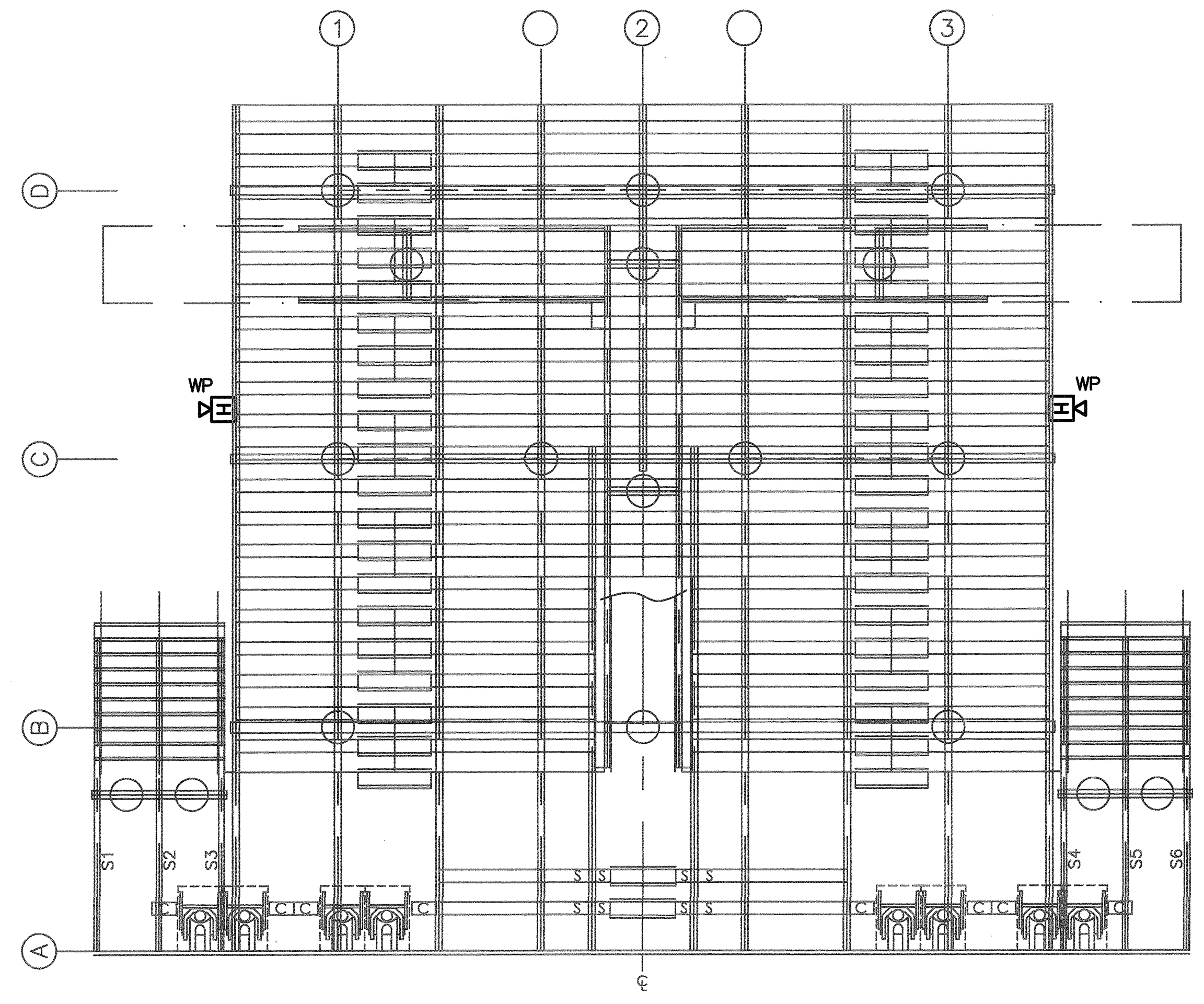
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

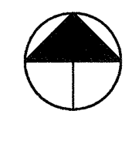
SHEET NUMBER: E203

SHEET TITLE:

VISITOR BLEACHERS LIGHTING AND POWER/SIGNAL PLANS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM





VISITORS BLEACHERS - FIRE ALARM PLAN

SCALE:
1/8"=1'-0"

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E17249
EXP. 06-30-2018
KUNAL G. SHAH

P:\P-2014\2014-115-00\MPE\E204.dwg Dec 01, 2016 - 4:56pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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Job No. 2014-115-00

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FILE # 19-H10

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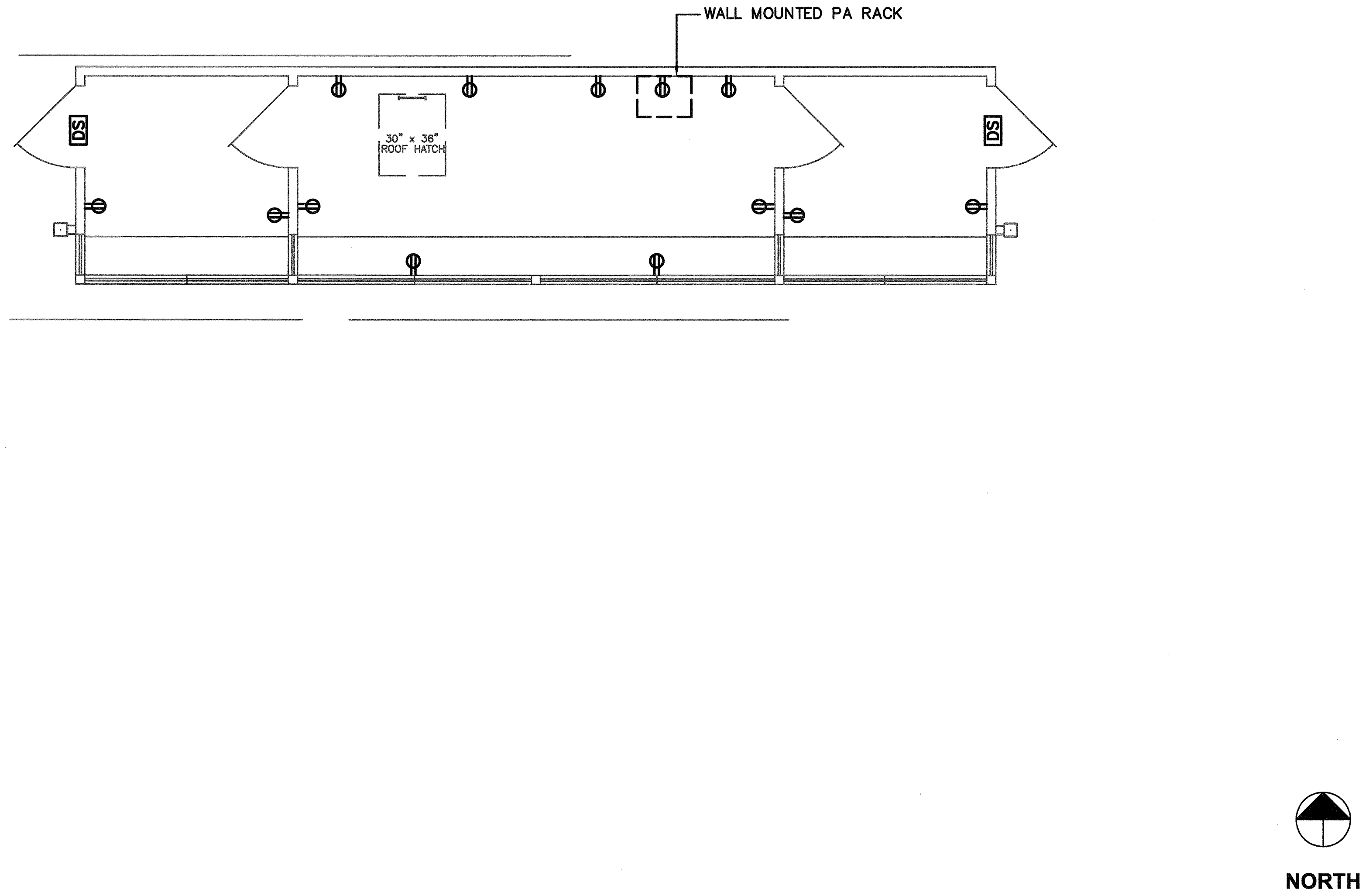
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: NONE

SHEET NUMBER: E204
SHEET TITLE:

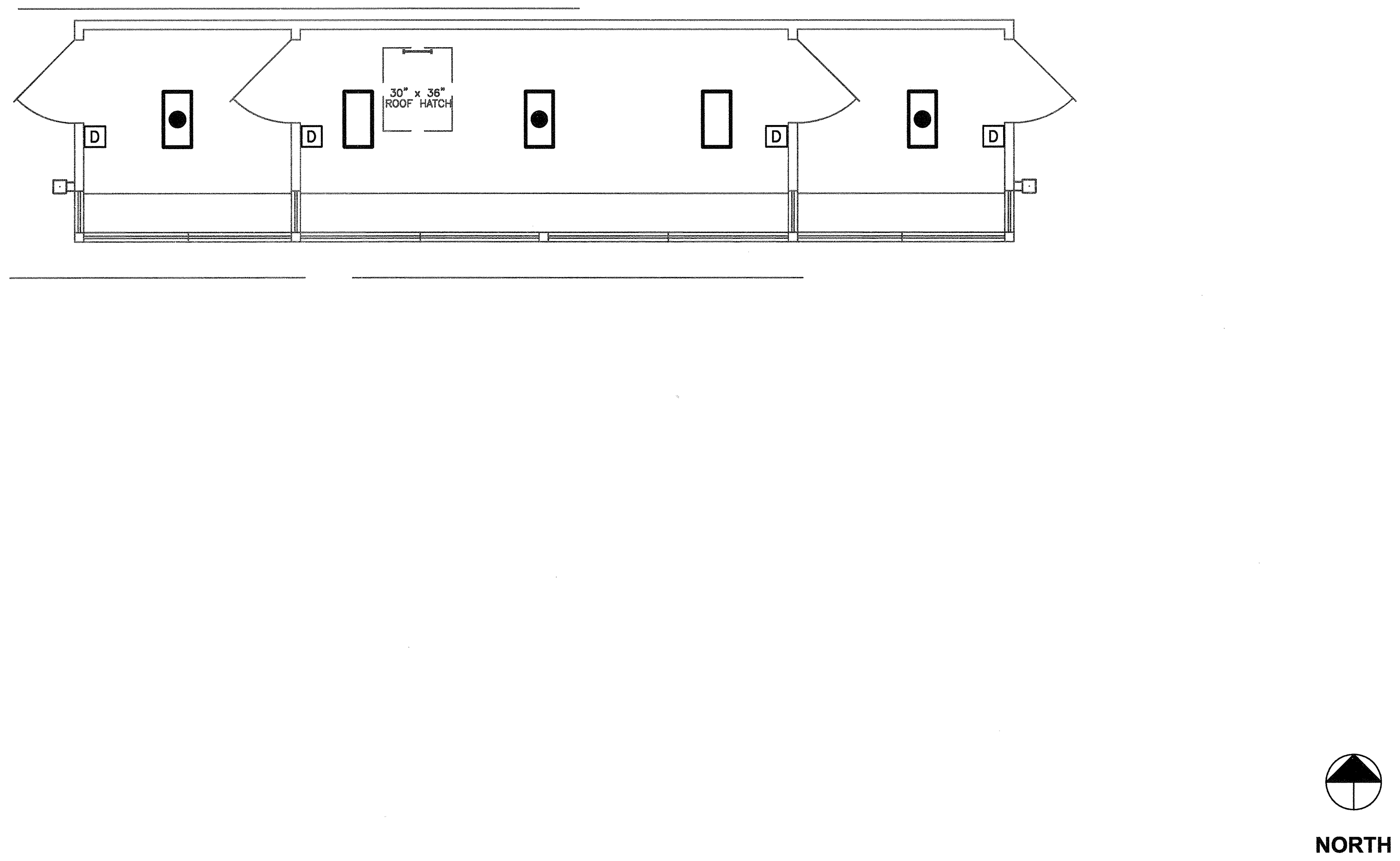
VISITOR BLEACHERS FIRE ALARM PLAN

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



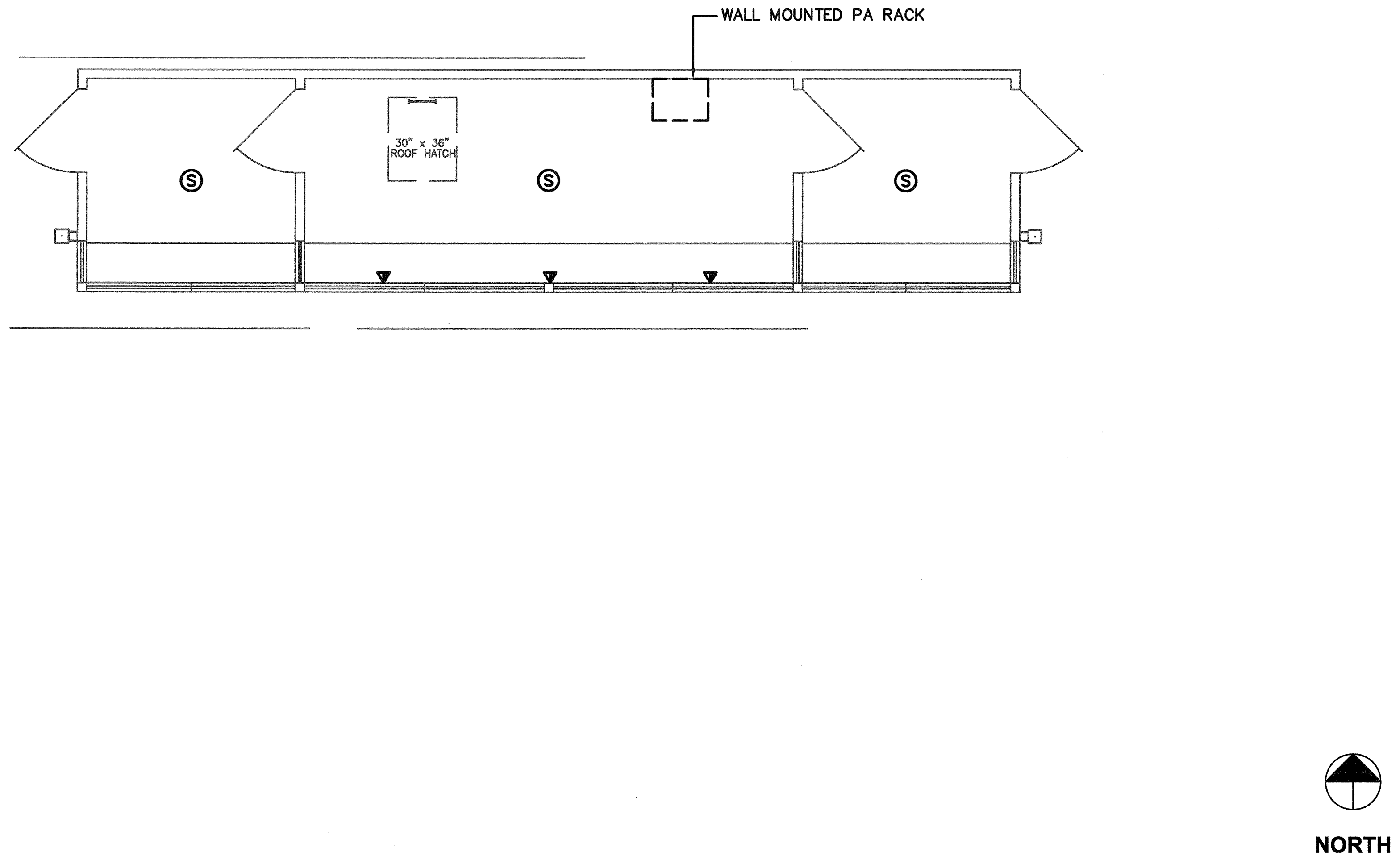
ENLARGED PRESS BOX POWER PLAN

SCALE: 1/4"=1'-0" 1



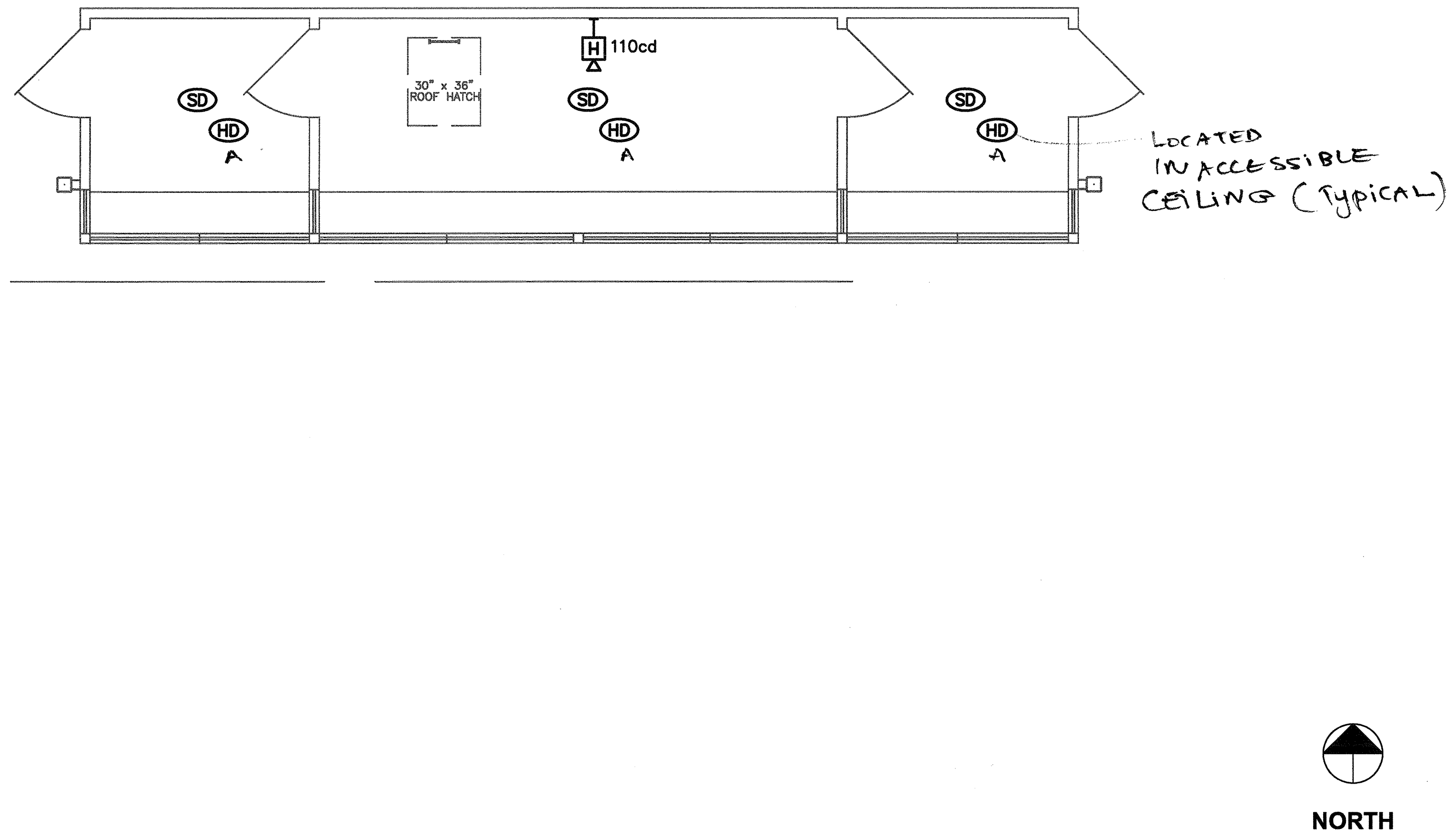
ENLARGED PRESS BOX LIGHTING PLAN

SCALE: 1/4"=1'-0" 2



ENLARGED PRESS BOX COMMUNICATION AND DATA PLAN

SCALE: 1/4"=1'-0" 3



LOCATED IN ACCESSIBLE CEILING (TYPICAL)

ENLARGED PRESS BOX FIRE ALARM PLAN

SCALE: 1/4"=1'-0" 4

KUNAL G. SHAH
E17249
EXP. 06-30-2018
ELECTRICAL

P:\P-2014\2014-115-00\MPE\E206.dwg Dec 01, 2016 - 4:56pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
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Job No. 2014-115-00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS EY SS ______
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

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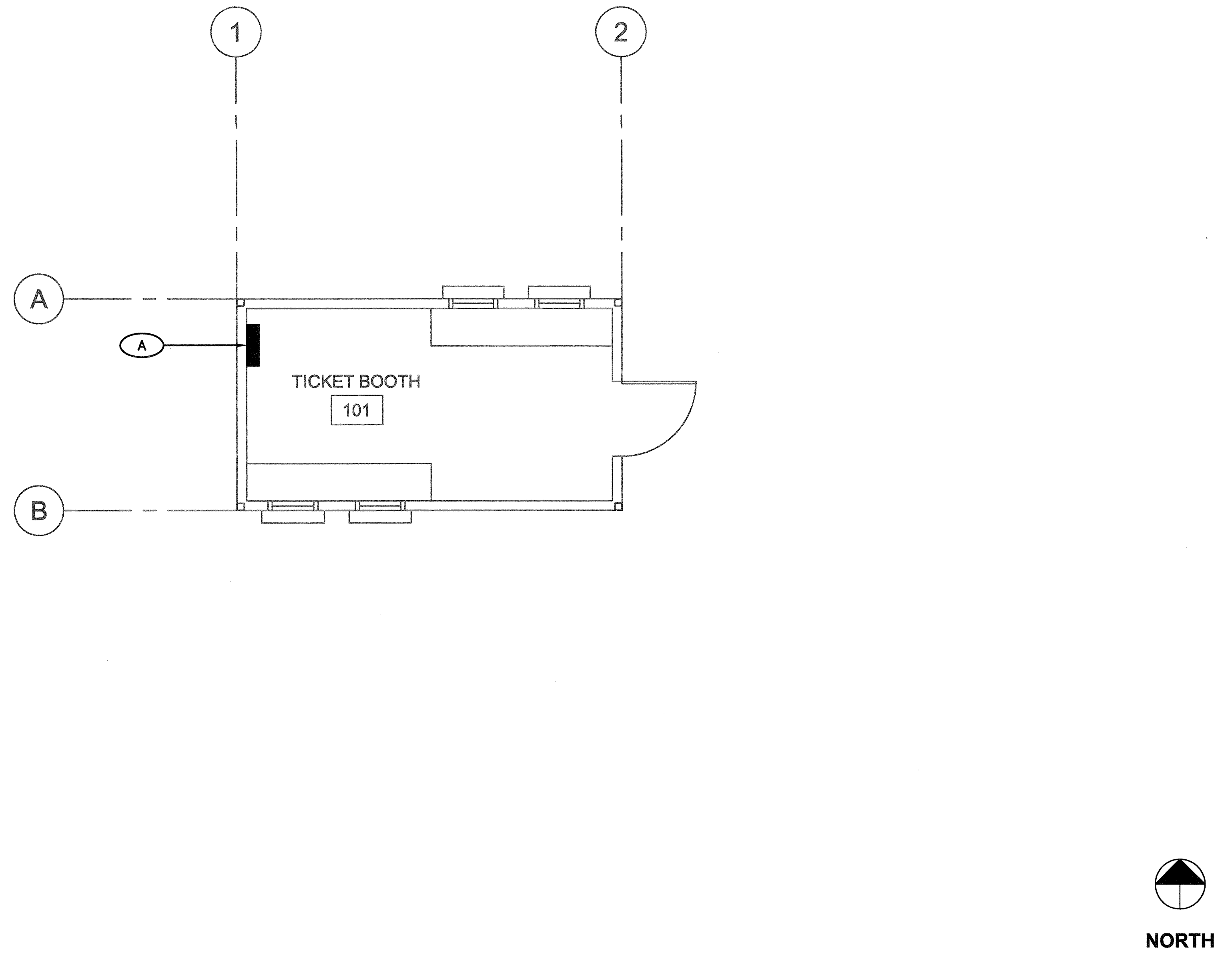
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS NOTED

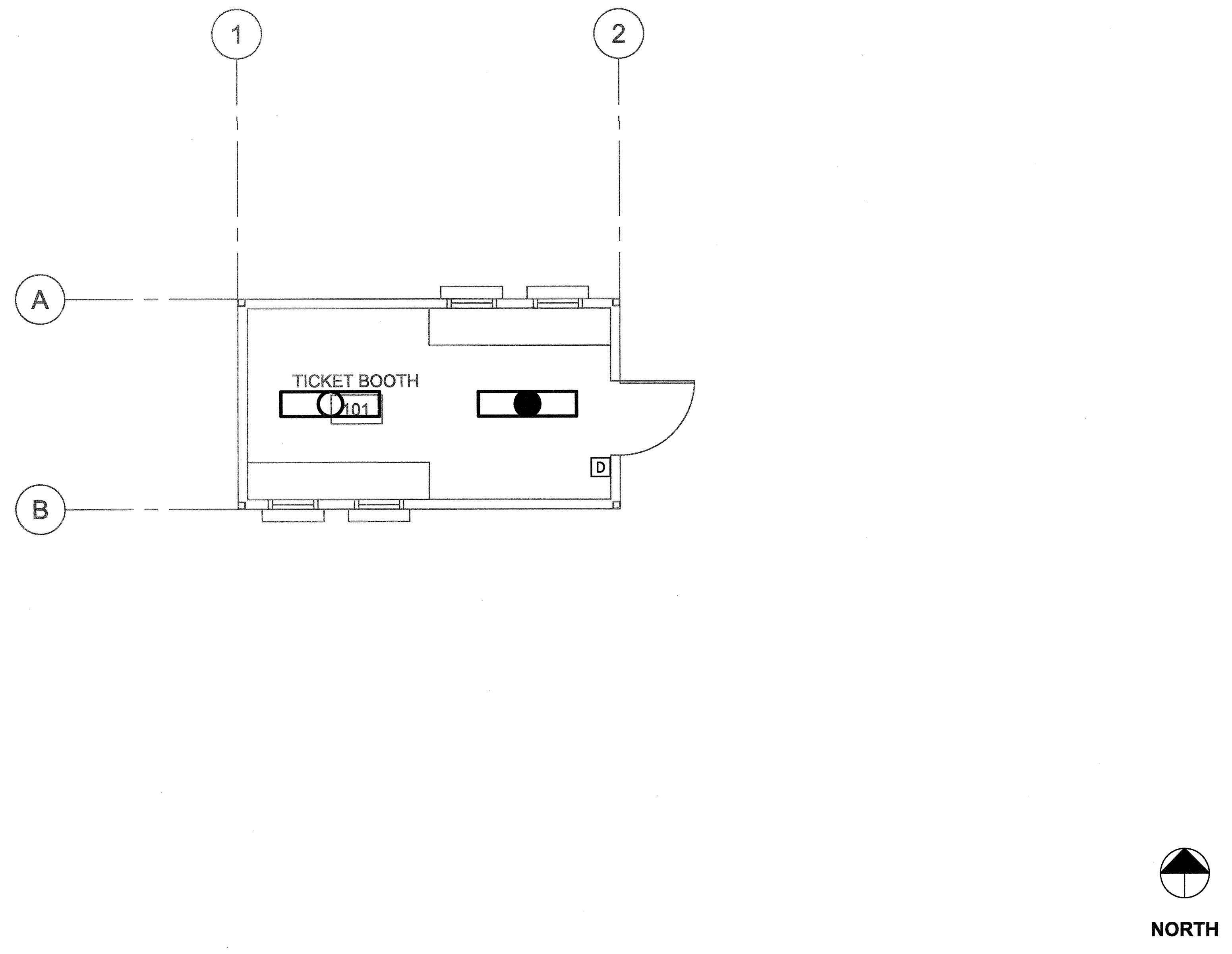
SHEET NUMBER: **E206**
SHEET TITLE:

PRESS BOX ELECTRICAL PLANS

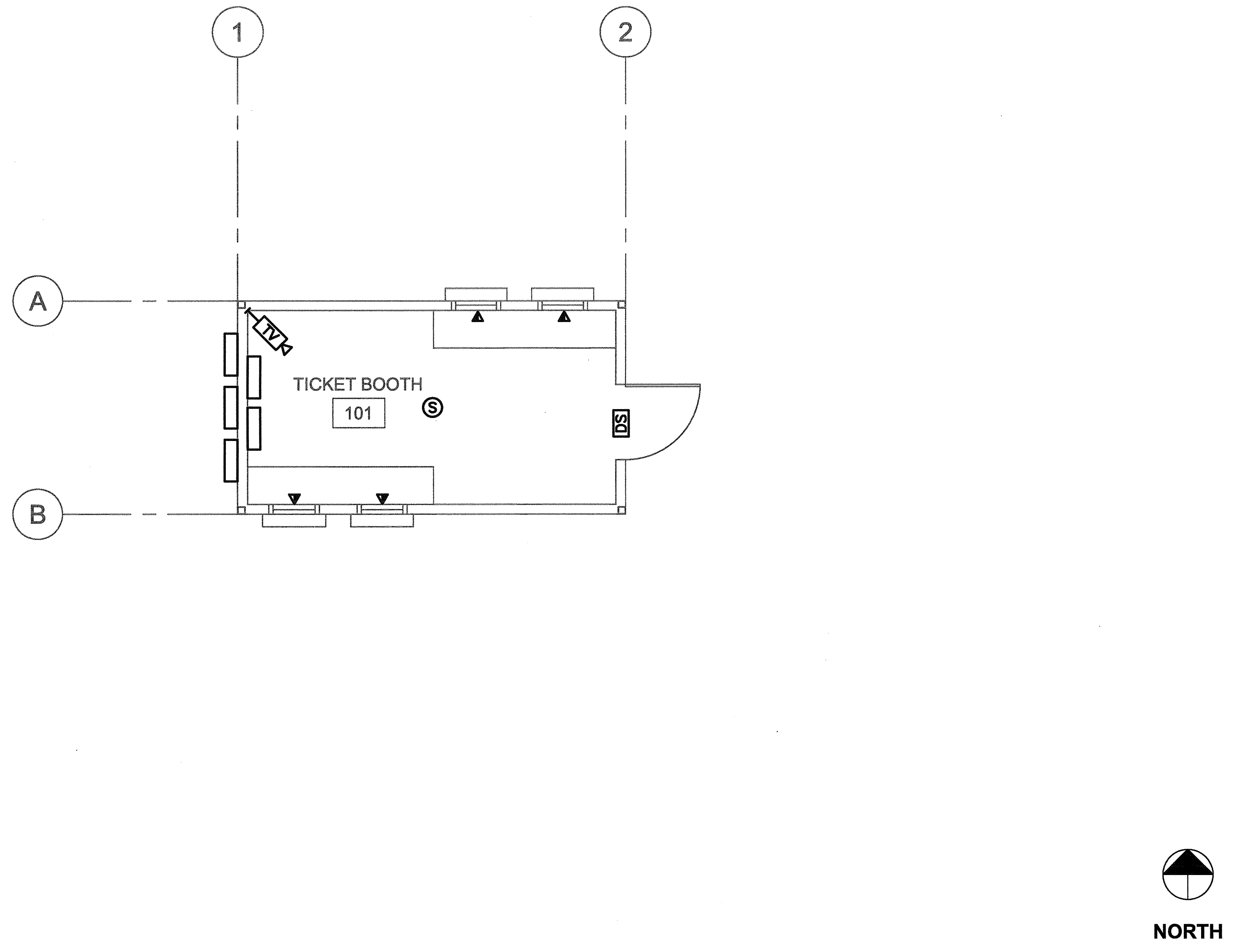
SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



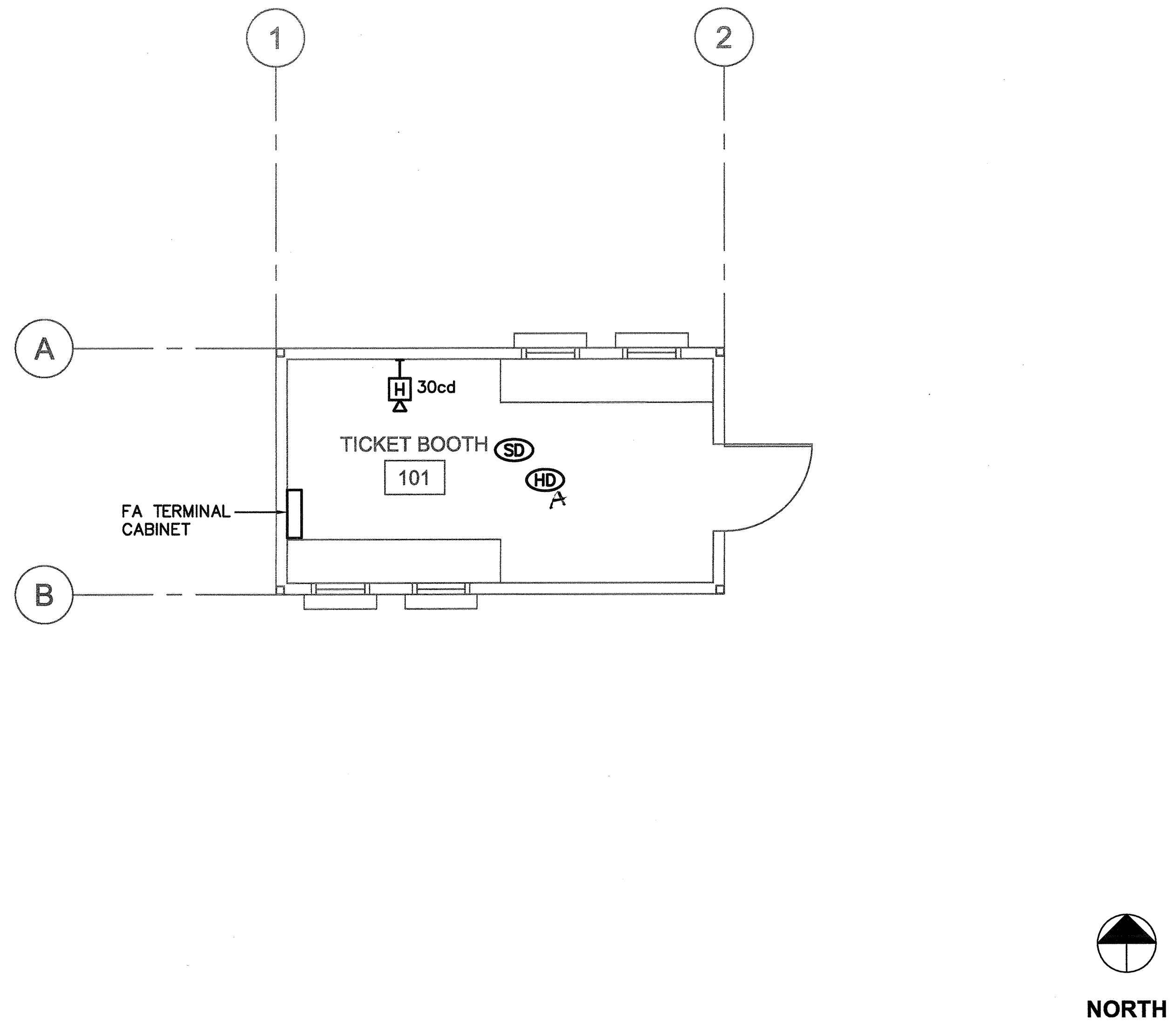
ENLARGED TICKET BOOTH POWER PLAN SCALE: 1/4"=1'-0" **1**



ENLARGED TICKET BOOTH LIGHTING PLAN SCALE: 1/4"=1'-0" **2**



ENLARGED TICKET BOOTH COMM AND DATA PLAN SCALE: 1/4"=1'-0" **3**



ENLARGED TICKET BOOTH FIRE ALARM PLAN SCALE: 1/4"=1'-0" **4**

REGISTERED PROFESSIONAL ENGINEER
KUNAL G. SHAH
E17249
EXP. 06-30-2018
ELECTRICAL
STATE OF CALIFORNIA

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS EG SS
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS NOTED

SHEET NUMBER: E207
SHEET TITLE:

TICKET BOOTH ELECTRICAL PLANS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
FACP	FIRE ALARM CONTROL PANEL	NFS2-640	NOTIFIER	SIZE AS REQUIRED	60" A.F.F. TO TOP	7165-0028:243
	UNIVERSAL DIGITAL ALARM TRANSMITTER	ABS-8R	NOTIFIER	SIZE AS REQUIRED	VERIFY IN FIELD	7300-0028:174
	AUXILIARY POWER SUPPLY	APS2-6R	NOTIFIER	SIZE AS REQUIRED	VERIFY IN FIELD	7315-0028:248
	NETWORK ANNUNCIATOR	NCA-2	NOTIFIER	SIZE AS REQUIRED	VERIFY IN FIELD	7165-0028:224
ANN	FIRE ALARM LCD ANNUNCIATOR PANEL	LCD-80	NOTIFIER	SIZE AS REQUIRED	VERIFY IN FIELD	7120-0028:156
FCPS	FIRE ALARM POWER SUPPLY	FCPS-24S6	NOTIFIER	SIZE AS REQUIRED	60" A.F.F. TO TOP	7315-0028:225
C R	FIRE ALARM CONTROL MODULE & RELAY MODULE	FCM-1/FRM-1	NOTIFIER	4S DEEP BOX W/ 4S EXTENSION	VERIFY IN FIELD	7300-0028:219
M	FIRE ALARM MONITOR MODULE	FMM-1	NOTIFIER	4S DEEP BOX W/ 4S EXTENSION	VERIFY IN FIELD	7300-0028:219
SD	AREA SMOKE DETECTOR (ADDRESSABLE)	FAPT-851 B710LP (BASE)	NOTIFIER	4S DEEP BOX W/ 3-0 RING	CEILING	7272-0028:206 7300-0028:173
HD	ATTIC HEAT DETECTOR (ADDRESSABLE)	FST-851H B710LP (BASE)	NOTIFIER	4S DEEP BOX W/ 3-0 RING	ATTIC	7270-0028:196 7300-0028:173
HD	HEAT DETECTOR (ADDRESSABLE)	FST-851H B710LP (BASE)	NOTIFIER	4S DEEP BOX W/ 3-0 RING	CEILING	7270-0028:196 7300-0028:173
DD	DUCT SMOKE DETECTOR (ADDRESSABLE)	FSD-751PL	NOTIFIER	NOT APPLICABLE	VERIFY IN FIELD	3240-0028:205
F	MANUAL PULL STATION	NGB-12LX	NOTIFIER	4S DEEP BOX W/ 4S EXTENSION	48" A.F.F.	7150-0028:199
Ⓕ 15/75CD	FIRE ALARM STROBE	RSS SERIES	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	80" MIN.AFF/96"MAX. AFF TO BOTTOM	7125-0785:141
Ⓕ 30CD	FIRE ALARM STROBE	RSS SERIES	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	80" MIN.AFF/96"MAX. AFF TO BOTTOM	7125-0785:141
□◁ 15/75CD	FIRE ALARM HORN STROBE	AS SERIES	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	80" MIN.AFF/96"MAX. AFF TO BOTTOM	7125-0785:131
□◁ 30CD	FIRE ALARM HORN STROBE	AS SERIES	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	80" MIN.AFF/96"MAX. AFF TO BOTTOM	7125-0785:131
□◁ 75CD	FIRE ALARM HORN STROBE	AS SERIES	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	80" MIN.AFF/96"MAX. AFF TO BOTTOM	7125-0785:131
H WP	FIRE ALARM HORN W/WP COVER	AH SERIES (WEATHERPROOF)	WHEELOCK	4S DEEP BOX W/ 4S EXTENSION	90" A.F.G. (MIN.) ON WALL	7125-0785:131
TS	FIRE ALARM TAMPER SWITCH INTERIOR & EXTERIOR TYPE	OSY2	NOTIFIER	4S DEEP BOX W/ 4S EXTENSION	VERIFY IN FIELD	7770-1653:118
FS	FIRE ALARM FLOW SWITCH	WFD40	NOTIFIER	4S DEEP BOX W/ 4S EXTENSION	VERIFY IN FIELD	7770-1653:114
Ⓑ WP	FIRE SPRINKER 10" 120VAC BELL W/ RWLAY MODULE	SSM24-10	SYSTEM SENSOR	4S BOX U.O.N	VERIFY IN FIELD	7335-1653:125 7135:1653:0217
P	AUXILIARY RELAY	PAM-1	AIR PRODUCTS & CONTROLS	4S BOX U.O.N	VERIFY IN FIELD	7300-1004:0101

NOTES:

1. PROVIDE WIRE GUARD FOR FIRE ALARM STROBES, HORN/STROBES UNITS LOCATED IN GYMNASIUM, LOCKER AREAS AND STUDENT RESTROOMS.
2. PROVIDE PROTECTIVE COVER (STOPPER II WITHOUT HORN) FOR ALL MANUAL PULL STATIONS.
3. PROVIDE BACKBOX ON STROBES, WP HORNS & STROBE/HORN IF DEVICES IN INSTALLED IN IN PORTABLE BLDG.

NOTES, STANDARDS, AND GUIDES

GENERAL NOTES

1. AN EXISTING FIRE ALARM SYSTEM IS BEING EXTENDED IN OCCUPANCIES LISTED, PER DSA POLICY 95-03(FLS).
2. INSTALL NEW FIRE ALARM DEVICES AS INDICATED.
3. DO ALL PROGRAMMING FOR NEW PANELS AS REQUIRED FOR SYSTEM OPERATION.
4. PLANS AND SPECIFICATIONS FOR THE NEW SYSTEM SHALL BE APPROVED BY DSA-FIRE AND LIFE SAFETY PRIOR TO SYSTEM INSTALLATION.
5. UPON COMPLETION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
6. UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE MANUFACTURER AND OR INSTALLER SHALL SUPPLY THE OWNER WITH WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS-BUILT DRAWINGS, AND EQUIPMENT SPECIFICATIONS.
7. FIRESTOPPING THROUGH PENETRATIONS OF FIREWALLS SHALL BE IN COMPLIANCE WITH THE ARCHITECHTURAL PLANS. SEE DETAILS THIS SHEET.
8. THE SYSTEM SHALL CONFORM TO TITLE 19 AND TITLE 24 AS APPLICABLE TO THIS PROJECT.
9. ALL THE DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHALL.
10. A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED AND SIGNED BY THE DSA INSPECTOR OF RECORD.
11. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
12. IF SPRINKLER SYSTEM EXCEEDS 99 HEADS, CENTRAL STATION MONITORING SERVICE SHALL BE PROVIDED, PER NFPA 72.
13. CONDUIT SYSTEM TO BE FURNISHED AND INSTALLED BY OTHERS.
14. TYPICAL DEVICE WIRING SCHEMATICS TO BE FOUND IN SUBMITTAL BOOKS.
15. COORDINATE THE EXACT LOCATION OF THE POST INDICATOR VALVE AND THE TAMPER AND FLOW SWITCHES WITH THE FIRE SPRINKLER CONTRACTOR.

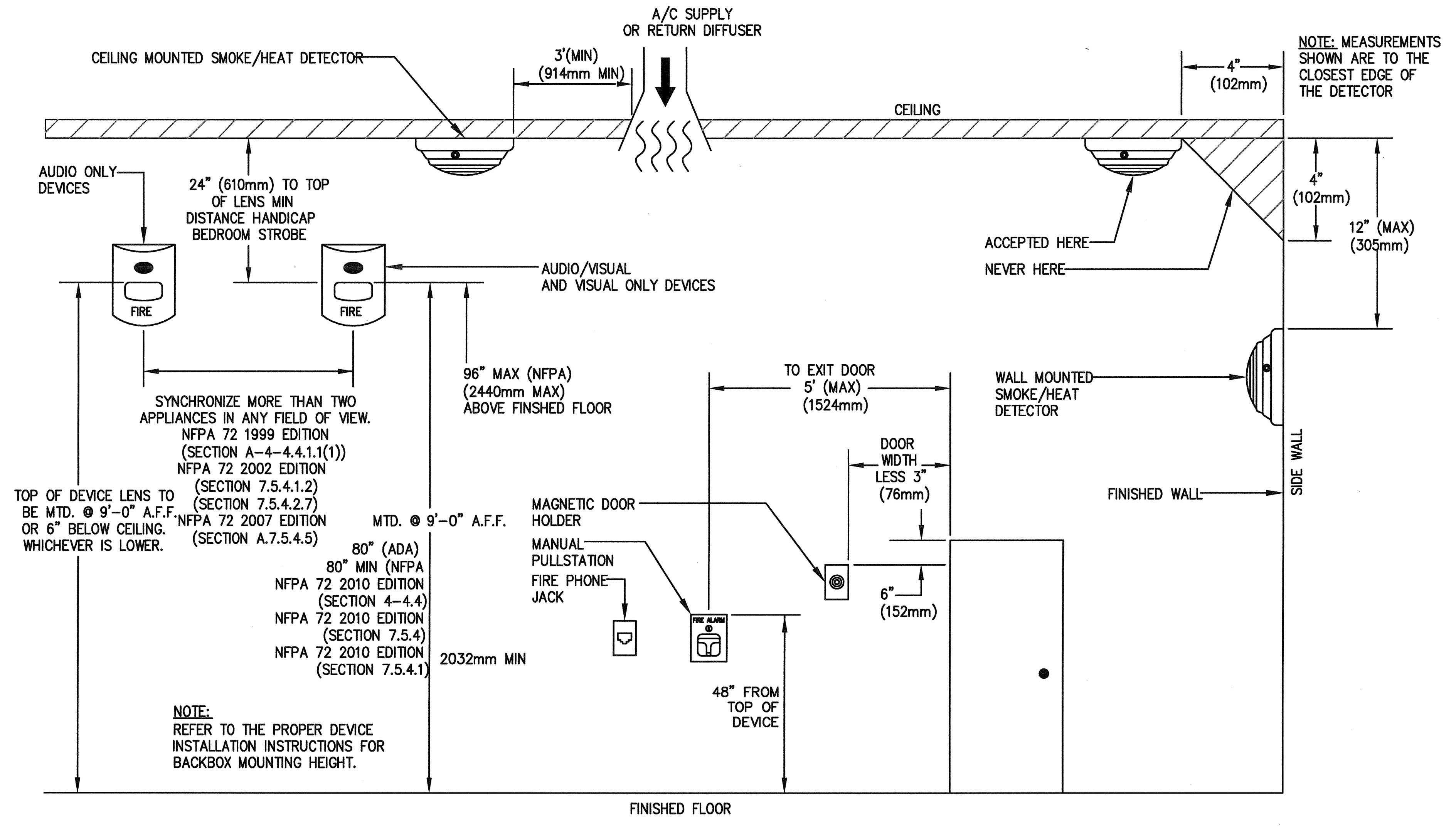
FIRESTOPPING REQUIREMENTS

1. PENETRATIONS THRU RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814.

SEQUENCE OF OPERATIONS

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE/ HEAT DETECTOR	120VAC POWER FAILURE	DUCT SMOKE DETECTOR	FIRE SPRINKLER WATER FLOW SWITCH	FIRE SPRINKLER TAMPER SWITCH
SOUND CONTROL PANEL TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	YES	ON WIRING FAULT	YES	YES
ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ACTIVATE AUDIBLE ALARM SIGNAL THROUGHOUT BUILDING (UNTIL SILENCE)	YES	YES	NO	YES	YES	NO
SHUTDOWN (MORE THAN 2000 CFM) AIR HANDLING UNITS	NO	YES	NO	YES	NO	NO
COMBINATION CLOSE SMOKE-FIRE DAMPERS	NO	YES	NO	YES	NO	NO
SOUND SPRINKLER BELL	NO	NO	NO	NO	YES	NO
ACTIVE VISUAL ALARM SIGNAL (UNTIL RESET)	YES	YES	NO	YES	YES	NO
SUPERVISORY SIGNAL ON PANEL	NO	NO	NO	NO	NO	YES
RELEASE DOOR HOLDERS THROUGHOUT FACILITY	YES	YES	YES	YES	YES	NO

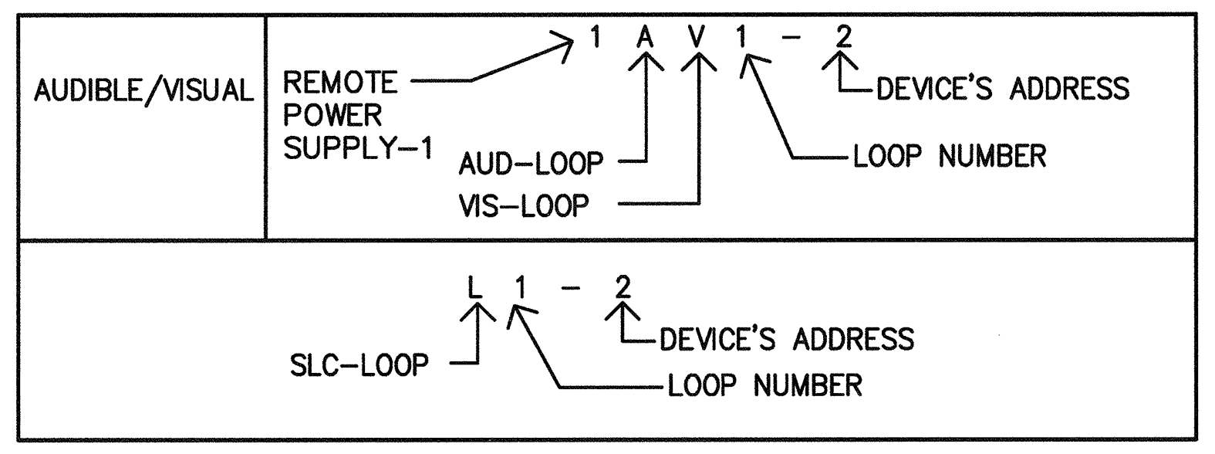
EQUIPMENT MOUNTING DETAIL


A/C SUPPLY OR RETURN DIFFUSER
CEILING MOUNTED SMOKE/HEAT DETECTOR
3'(MIN) (914mm MIN)
CEILING
4" (102mm)
NOTE: MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR
AUDIO ONLY DEVICES
24" (610mm) TO TOP OF LENS MIN DISTANCE HANDICAP BEDROOM STROBE
FIRE
FIRE
AUDIO/VISUAL AND VISUAL ONLY DEVICES
ACCEPTED HERE
NEVER HERE
4" (102mm)
12" (MAX) (305mm)
96" MAX (NFPA) (2440mm MAX) ABOVE FINSHED FLOOR
TO EXIT DOOR 5' (MAX) (1524mm)
WALL MOUNTED SMOKE/HEAT DETECTOR
SYNCHRONIZE MORE THAN TWO APPLIANCES IN ANY FIELD OF VIEW. NFPA 72 1999 EDITION (SECTION A-4-4.4.1.1(1)) NFPA 72 2002 EDITION (SECTION 7.5.4.1.2) (SECTION 7.5.4.2.7) NFPA 72 2007 EDITION (SECTION A.7.5.4.5)
DOOR WIDTH LESS 3" (76mm)
SIDE WALL
FINISHED WALL
TOP OF DEVICE LENS TO BE MTD. @ 9'-0" A.F.F. OR 6" BELOW CEILING. WHICHEVER IS LOWER.
MTD. @ 9'-0" A.F.F.
MAGNETIC DOOR HOLDER
MANUAL PULLSTATION
FIRE PHONE JACK
80" (ADA) 80" MIN (NFPA NFPA 72 2010 EDITION (SECTION 4-4.4) NFPA 72 2010 EDITION (SECTION 7.5.4) NFPA 72 2010 EDITION (SECTION 7.5.4.1)
2032mm MIN
6" (152mm)
FIRE ALARM
48" FROM TOP OF DEVICE
NOTE: REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT.
FINISHED FLOOR

CONDUIT AND WIRE SPECIFICATIONS

LABEL	DESCRIPTION OF CONTENTS	CONDUIT SIZE (UNO)
F1	(2)PR#16AWG UTP	3/4" MIN.
F2	(2)#12AWG THHN/THWN	3/4" MIN.
F3	(2)PR#16AWG UTP, (2)(2)#12AWG THHN/THWN	3/4" MIN.
F4	(4)#12AWG THHN/THWN	3/4" MIN.
F5	(2)PR#16AWG UTP, (4)(2)#12AWG THHN/THWN	3/4" MIN.
F6	(6)#12AWG THHN/THWN	3/4" MIN.
F7	(6)-#12THWN CU WIRES	3/4" MIN.
F8	(8)#12AWG THHN/THWN	3/4" MIN.
F9	(2)PR#16AWG UTP, (8)(2)#12AWG THHN/THWN	3/4" MIN.

NOTES:
1. 2/16 FPLR; INSIDE ONLY.
2. 2/16 FPL DIRECT BURIAL; UNDERGROUND.
3. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
4. "THWN", "AQUASEAL", OR EQUAL TO BE USED IN WET LOCATIONS.



OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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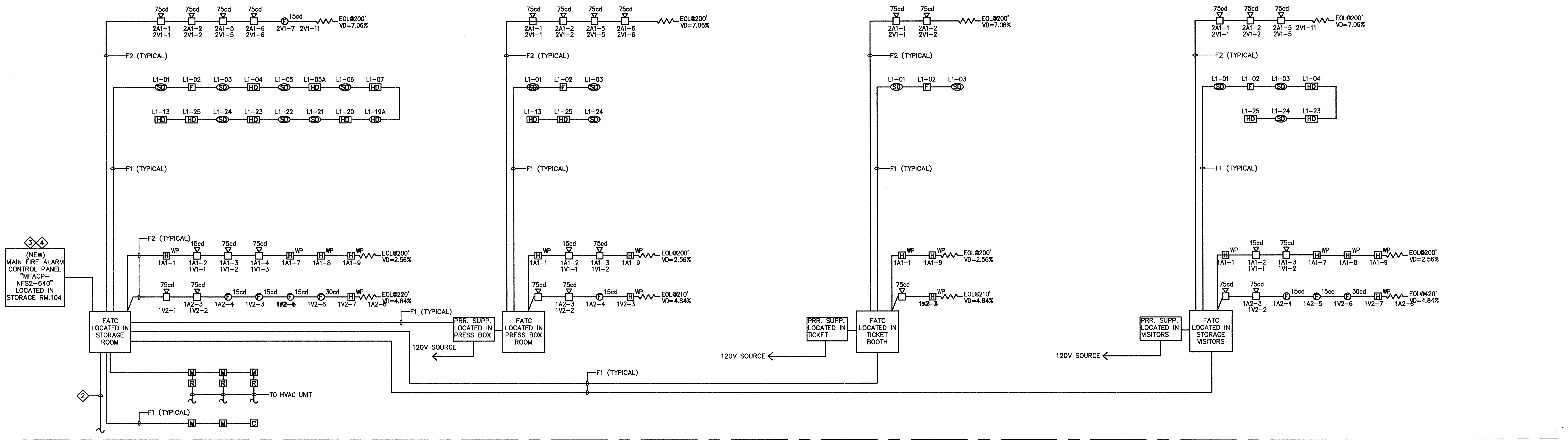
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **E300**
SHEET TITLE:

FIRE ALARM SYSTEM DETAIL

E17249
EXP. 06-30-2018

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



BATTERY CALCULATION FOR (NEW)FACP-NFS2-640 FIRE CONTROL PANEL AND REMOTE POWER SUPPLIES.

DESCRIPTION	MAKE	MODEL No.	UNIT STANDBY	UNIT ALARM	FACP STANDBY	FACP ALARM	FCPS-10 ALARM	FCPS-11 ALARM	QUANTITY FACP	BLDG.10 FCPS-10	BLDG.11 FCPS-11	TOTAL
FIRE ALARM CONTROL PANEL	NOTIFIER	NFS2-640	0.373000	0.470000	0.373000	0.470000			1			1
ANNUNCIATOR	NOTIFIER	LCD-80	0.300000	0.325000					1			1
EXPANSION POWER SUPPLY	NOTIFIER	FCPS-24S6	0.065000	0.091000			0.091000	0.091000		1	1	2
MONITOR MODULE	NOTIFIER	FMM-1	0.000375	0.006000	0.003375	0.054000			9			9
CONTROL MODULE/RELAY MODULE		FCM-1/FRM-1	0.000375	0.006000	0.006375	0.102000			17			17
ADDRESSABLE ATTIC HEAT SENSOR	NOTIFIER	FST-851H	0.000360	0.006500	0.011880	0.214500			33			33
AND HEAT SENSOR BASE												0
ADDRESSABLE HEAT SENSOR	NOTIFIER	FST-851H	0.000360	0.006500	0.000360	0.006500			1			1
AND HEAT SENSOR BASE												0
ADDRESSABLE SMOKE SENSOR	NOTIFIER	FAPT-851	0.000360	0.006500	0.018000	0.325000			50			50
AND SMOKE SENSOR BASE												0
ADDRESSABLE PULL STATION	NOTIFIER	NGB-12LX	0.000800	0.001500	0.012800	0.024000			16			16
15cd HORN/STROBE	WHEELOCK	AS SERIES		0.060000		0.180000	0.120000	0.000000	3	2		5
30cd HORN/STROBE	WHEELOCK	AS SERIES		0.084000		0.000000	0.000000	0.000000				0
75cd HORN/STROBE	WHEELOCK	AS SERIES		0.132000		0.264000	0.528000	0.528000	2	4	4	10
110cd HORN/STROBE	WHEELOCK	AS SERIES		0.173000					1			1
15cd STROBE	WHEELOCK	RSS SERIES		0.060000		0.240000	0.000000	0.060000	4		1	5
30cd STROBE	WHEELOCK	RSS SERIES		0.092000		0.184000			2		2	4
75cd STROBE	WHEELOCK	RSS SERIES		0.165000								
110cd STROBE	WHEELOCK	RSS SERIES		0.220000								
WP HORN	WHEELOCK	AH SERIES		0.062000		0.372000	0.186000	0.186000	6	3	3	12
	TOTAL				0.4258	2.0640	0.7390	0.6790	146	10	8	164
STANDBY LOAD IN AMPERES						0.4258	0.0650	0.0650				
24 HOUR STANDBY MODE						X 24	X 24	X 24				
STANDBY AMPERE-HOUR REQUIRED						10.2190	1.5600	1.5600				
ALARM LOAD IN AMPERES						2.0640	0.7390	0.6790				
5 MINUTE (.083HR) ALARM MODE						X 0.083	X 0.083	X 0.083				
ALARM AMPERE-HOUR REQUIRED						0.1713	0.0613	0.0564				
TOTAL AMPERE-HOUR REQUIRED						10.39	1.62	1.62				
BATTERY SIZE IN AMPERE-HOUR						40	7	7				
SPARE CAPACITY IN AMPERE-HOUR						29.61	5.38	5.38				

FIRE ALARM CIRCUIT SCHEDULE

LOCATION	PANEL	CIRCUIT	15cd STROBE	30cd STROBE	75cd STROBE	15cd HORN/STROBE	30cd HORN/STROBE	75cd HORN/STROBE	110cd HORN/STROBE	WP HORN	TOTAL CIRCUIT	WIRE SIZE	DISTANCE IN FEET	PERCENTAGE VOLTAGE
			0.060	0.092	0.165	0.060	0.084	0.132	0.173	0.062	AMPS	AWG	TO EOL	DROP
BLDG. 10 – 1ST FLOOR	FACP	1AV1				1		2	1	3	0.683	12	380	3.9746
BLDG. 10 – 1ST FLOOR	FACP	1AV2	4	2		2				3	0.730	12	460	5.1424
BLDG. 10 – 2ND FLOOR	FCPS-10	2AV1				2		4		3	0.834	12	400	5.1087
BLDG. 10 – 2ND FLOOR	FCPS-10	SPARE									0.000	12		0.0000
BUILDING 11	FCPS-11	3AV3	1	2				4		3	0.958	12	280	4.1078
BUILDING 11	FCPS-11	SPARE										12		

KEY NOTES

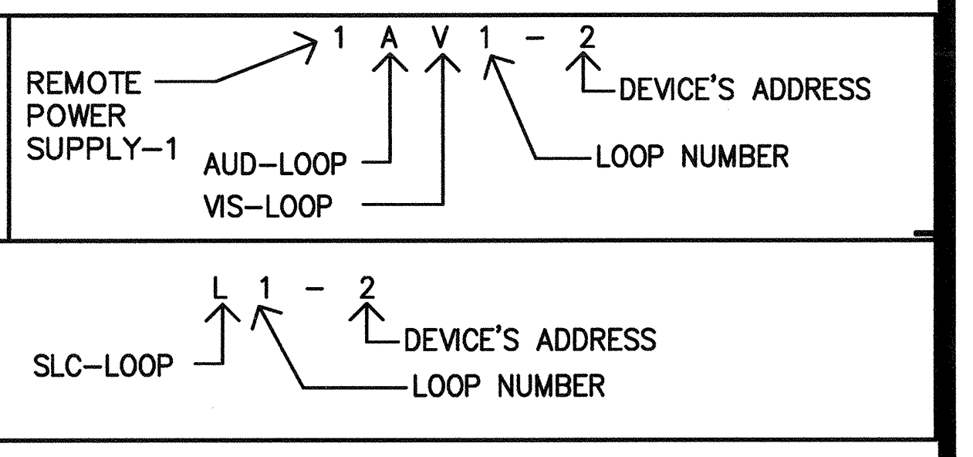
1. SEE FA SYSTEM FLOOR PLANS APPROXIMATE EQUIPMENT LOCATION.
2. REFER TO SITE PLAN SHEET FOR CONTINUEATION.
3. CONTRACTOR TO PROVIDE CIRCUIT BREAKER WITH LOCK ON DEVICE.
4. CONTRACTOR TO PROVIDE NETWORK SYSTEM FROM EXISTING "FACP" TO THE NEW FACP-NFS2-640 AT CONCESSION BUILDING.
5. CONTRACTOR TO FIELD COORDINATE WITH LOCAL FIRE DEPARTMENT FOR FINAL LOCATION OF NEW ANNUNCIATOR PANEL.

CONDUIT AND WIRE SPECIFICATIONS

LABEL	DESCRIPTION OF CONTENTS	CONDUIT SIZE (UNO)
F1	(2)PR#16AWG UTP	3/4" MIN.
F2	(2)#12AWG THHN/THWN	3/4" MIN.
F3	(2)PR#16AWG UTP, (2)(2)#12AWG THHN/THWN	3/4" MIN.
F4	(4)#12AWG THHN/THWN	3/4" MIN.
F5	(2)PR#16AWG UTP, (4)(2)#12AWG THHN/THWN	3/4" MIN.
F6	(6)#12AWG THHN/THWN	3/4" MIN.
F7	(6)-#12THWN CU WIRES	3/4" MIN.
F8	(8)#12AWG THHN/THWN	3/4" MIN.
F9	(2)PR#16AWG UTP, (8)(2)#12AWG THHN/THWN	3/4" MIN.

NOTES:
1. 2/16 FPLR; INSIDE ONLY.
2. 2/16 FPL DIRECT BURIAL; UNDERGROUND.
3. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
4. "THWN", "AQUASEAL", OR EQUAL TO BE USED IN WET LOCATIONS.

AUDIBLE/VISUAL



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DATE ISSUED: 01-23-2017
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SHEET NUMBER: **E301**
SHEET TITLE:

FIRE ALARM SYSTEM RISER DIAGRAM

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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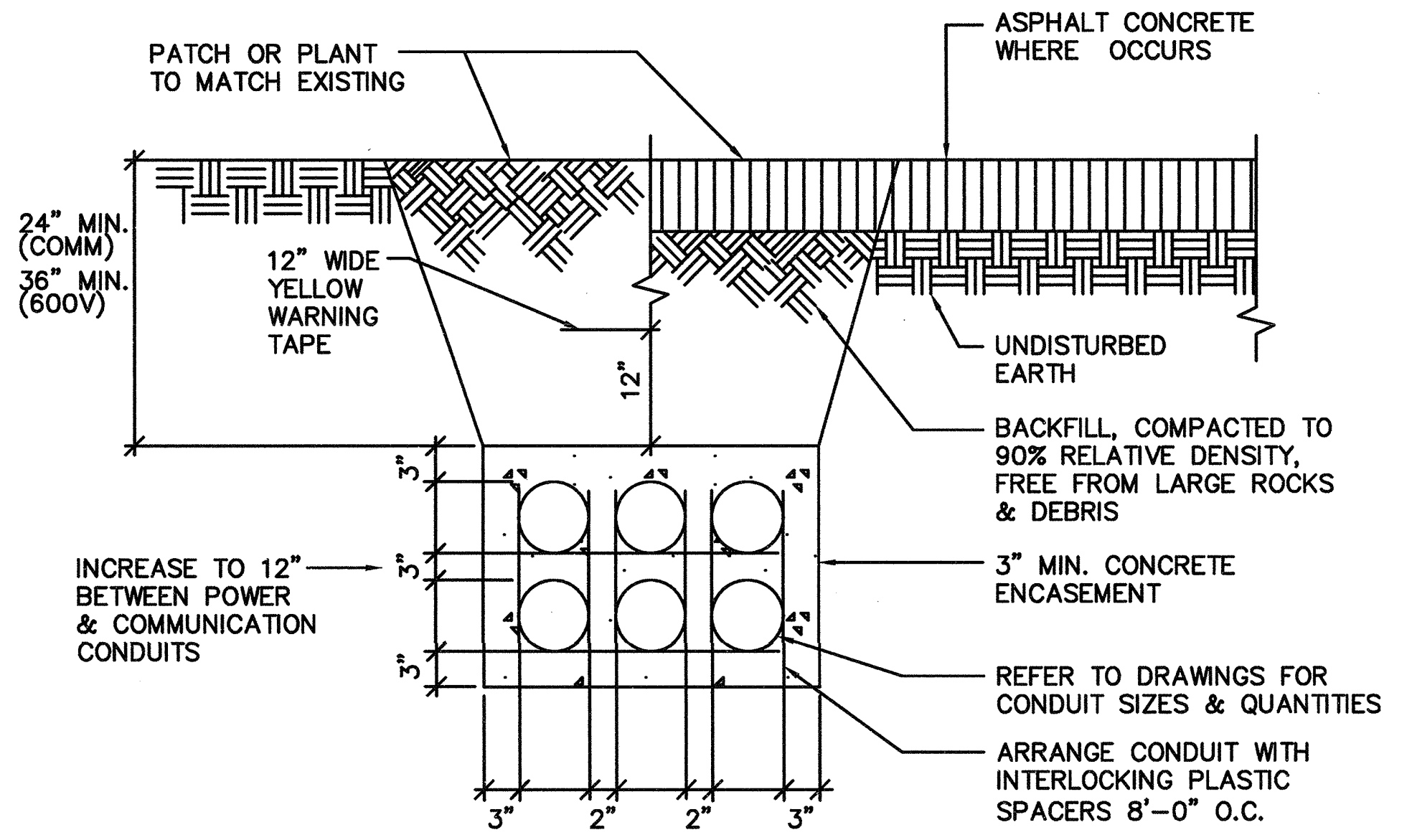
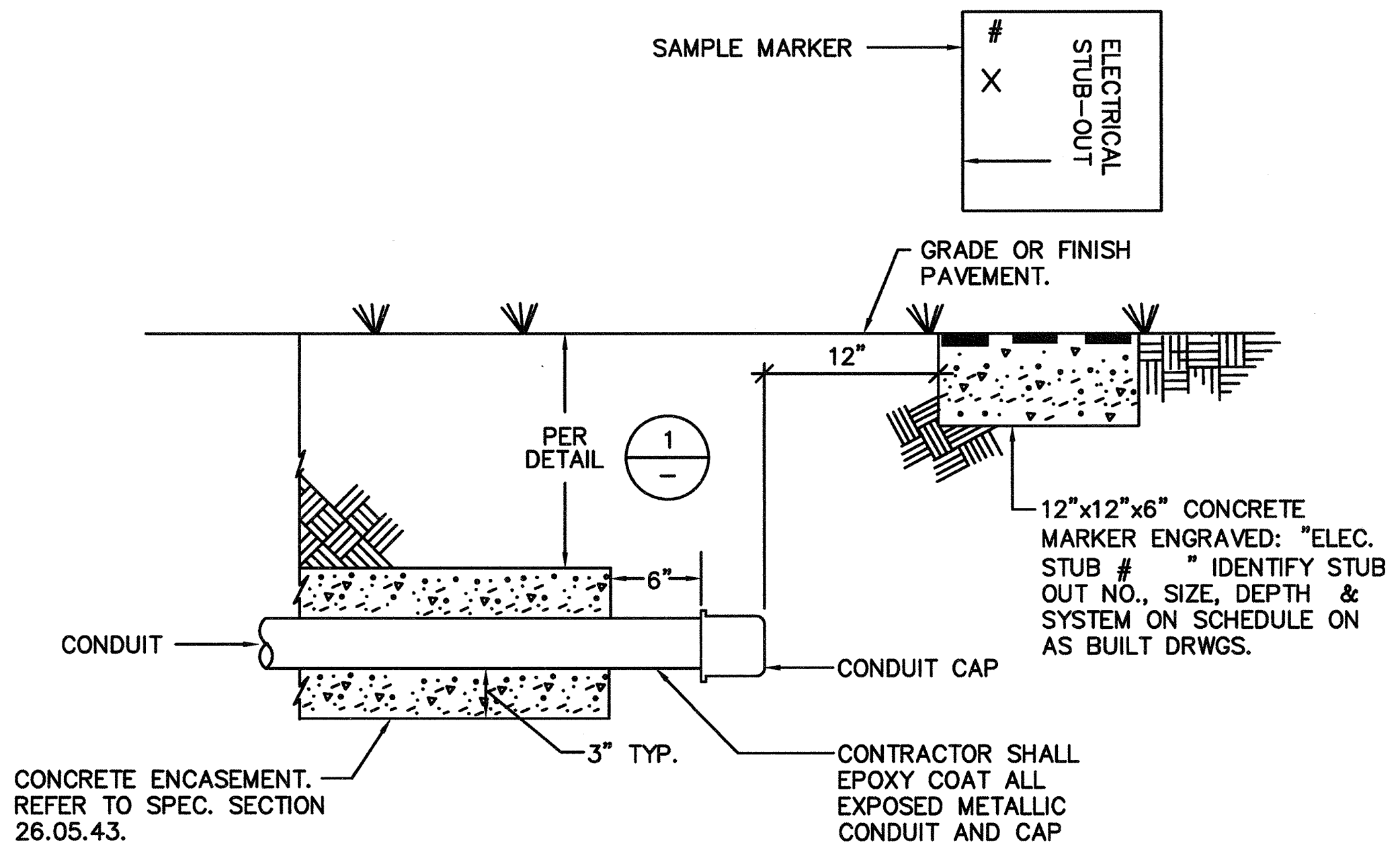

PATCH OR PLANT TO MATCH EXISTING
ASPHALT CONCRETE WHERE OCCURS
24" MIN. (COMM)
36" MIN. (600V)
12" WIDE YELLOW WARNING TAPE
12"
UNDISTURBED EARTH
BACKFILL, COMPACTED TO 90% RELATIVE DENSITY, FREE FROM LARGE ROCKS & DEBRIS
INCREASE TO 12" BETWEEN POWER & COMMUNICATION CONDUITS
3" MIN. CONCRETE ENCASEMENT
REFER TO DRAWINGS FOR CONDUIT SIZES & QUANTITIES
ARRANGE CONDUIT WITH INTERLOCKING PLASTIC SPACERS 8'-0" O.C.
3"
3"
3"
3"
2"
2"
3"

UNDERGROUND MULTI-CONDUIT PLACEMENT DETAIL

NOT TO SCALE 1

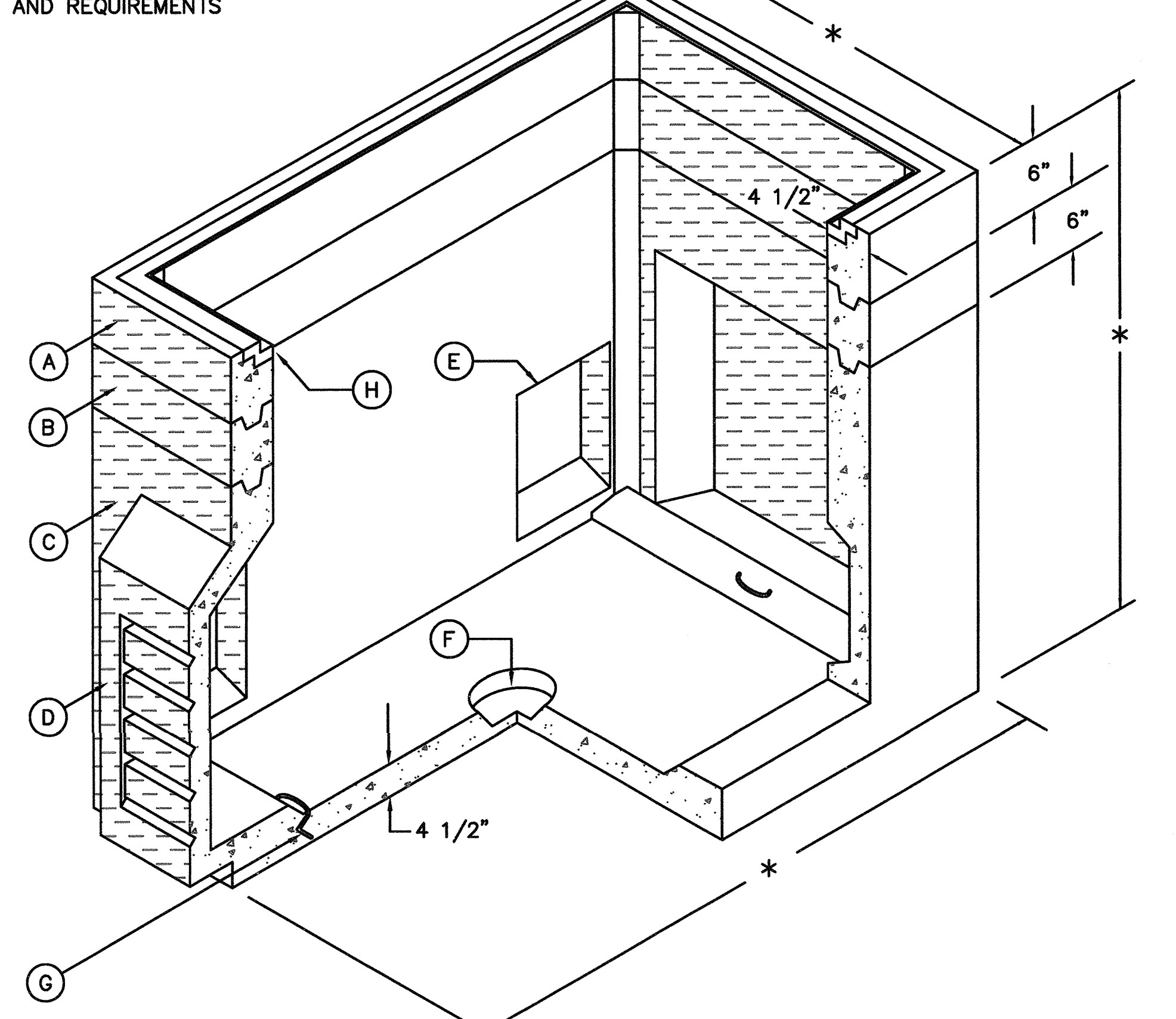

SAMPLE MARKER
#
X
ELECTRICAL STUB-OUT
GRADE OR FINISH PAVEMENT.
12"
PER DETAIL
1
—
6"
12"x12"x6" CONCRETE MARKER ENGRAVED: "ELEC. STUB # " IDENTIFY STUB OUT NO., SIZE, DEPTH & SYSTEM ON SCHEDULE ON AS BUILT DRWGS.
CONDUIT
CONDUIT CAP
CONCRETE ENCASEMENT. REFER TO SPEC. SECTION 26.05.43.
3" TYP.
CONTRACTOR SHALL EPOXY COAT ALL EXPOSED METALLIC CONDUIT AND CAP

CONDUIT STUB-OUT SCHEDULE				
No.	CONDUIT	DEPTH	SYSTEM	REMARKS
X	2-4"C.	36"	TEL.	(EXAMPLE)

CONDUIT BELOW GRADE STUB-OUT DETAIL

NOT TO SCALE 2

∗ = REFER TO DRAWINGS FOR SIZE AND REQUIREMENTS

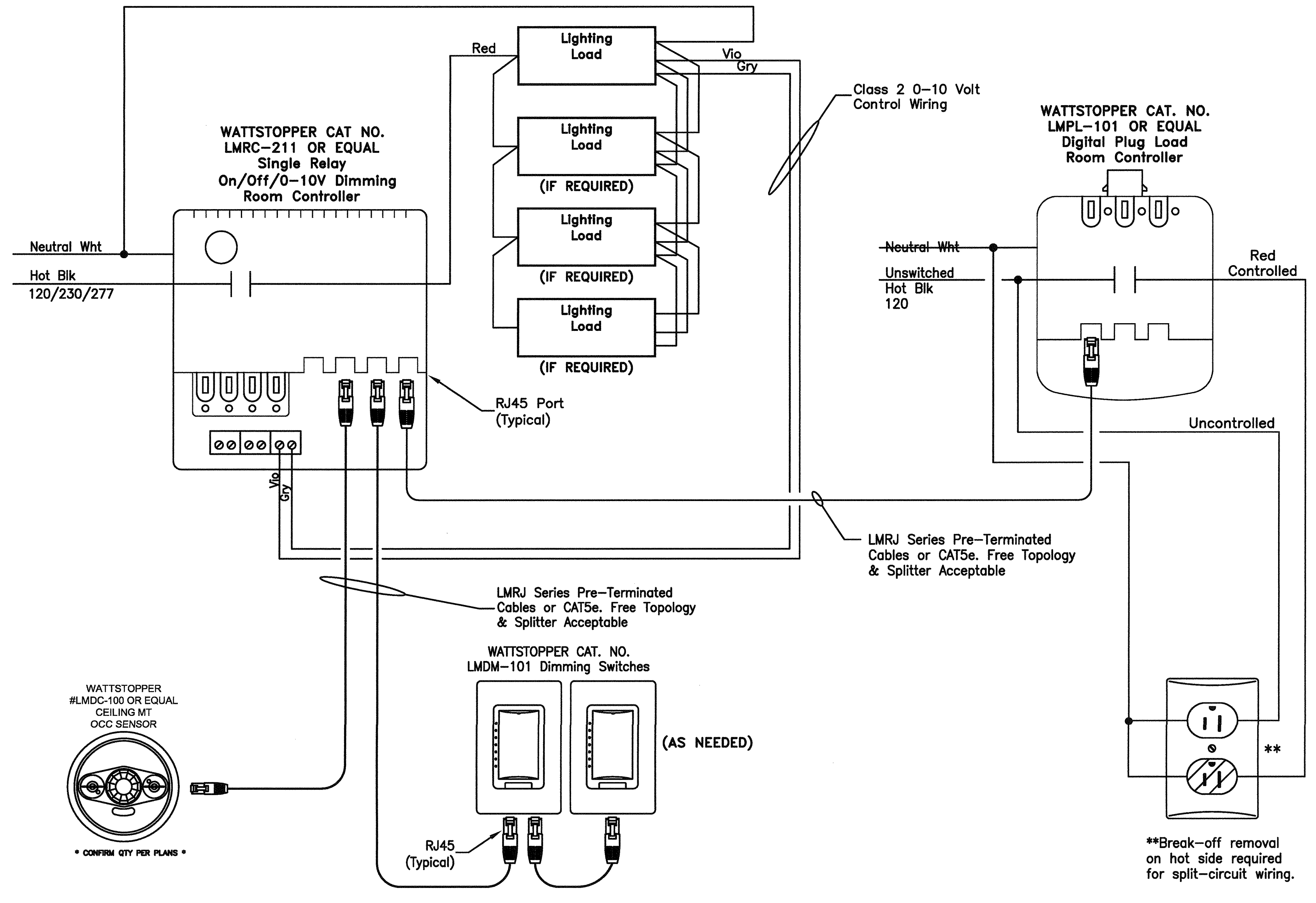


Ⓐ – TOP SECTION
Ⓑ – EXTENSION SECTION
Ⓒ – BOTTOM SECTION
Ⓓ 1'-6" X 2'--2 1/2" X 1'-0" DEEP DUCT
Ⓔ – KNOCKOUT
Ⓕ – SUMP
Ⓖ – PULL IRONS
Ⓗ – ARMOR FRAME

● ASSEMBLY TO BE PLACED ON 6" BASE COMPACTED ROCK TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON FLOOR.

UNDERGROUND PULLBOX DETAIL

NOT TO SCALE 3


WATTSTOPPER CAT NO. LMRC-211 OR EQUAL Single Relay On/Off/0-10V Dimming Room Controller
Neutral Wht
Hot Blk 120/230/277
Red
Lighting Load
Lighting Load
(IF REQUIRED)
Lighting Load
(IF REQUIRED)
Lighting Load
(IF REQUIRED)
Vio
Gry
Class 2 0-10 Volt Control Wiring
RJ45 Port (Typical)
Vio
Gry
LMRJ Series Pre-Terminated Cables or CAT5e. Free Topology & Splitter Acceptable
WATTSTOPPER CAT. NO. LMPL-101 OR EQUAL Digital Plug Load Room Controller
~~Neutral Wht~~
Unswitched Hot Blk 120
Red Controlled
Uncontrolled
LMRJ Series Pre-Terminated Cables or CAT5e. Free Topology & Splitter Acceptable
WATTSTOPPER #LMDC-100 OR EQUAL CEILING MT OCC SENSOR
* CONFIRM QTY PER PLANS *
WATTSTOPPER CAT. NO. LMDM-101 Dimming Switches
(AS NEEDED)
RJ45 (Typical)
**
**Break-off removal on hot side required for split-circuit wiring.

FOR LIGHTING FIXTURES WITH HALF-CONTROLLED RECEPTACLE, WALL SWITCH AND OCCUPANCY SENSOR

1

DIMMING ROOM CONTROLLER WIRING DIAGRAM

NOT TO SCALE 4

-

NOT TO SCALE 7

-

NOT TO SCALE 8

P:\P-2014\2014-115-00\MPE\E400.dwg Dec 01, 2016 - 4:56pm

E17249
EXP. 06-30-2018
ELECTRICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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Job No. 2014-115-00

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OFFICE OF REGULATION SERVICES
A# 03-117117
AC______ FLS ______ SS ______
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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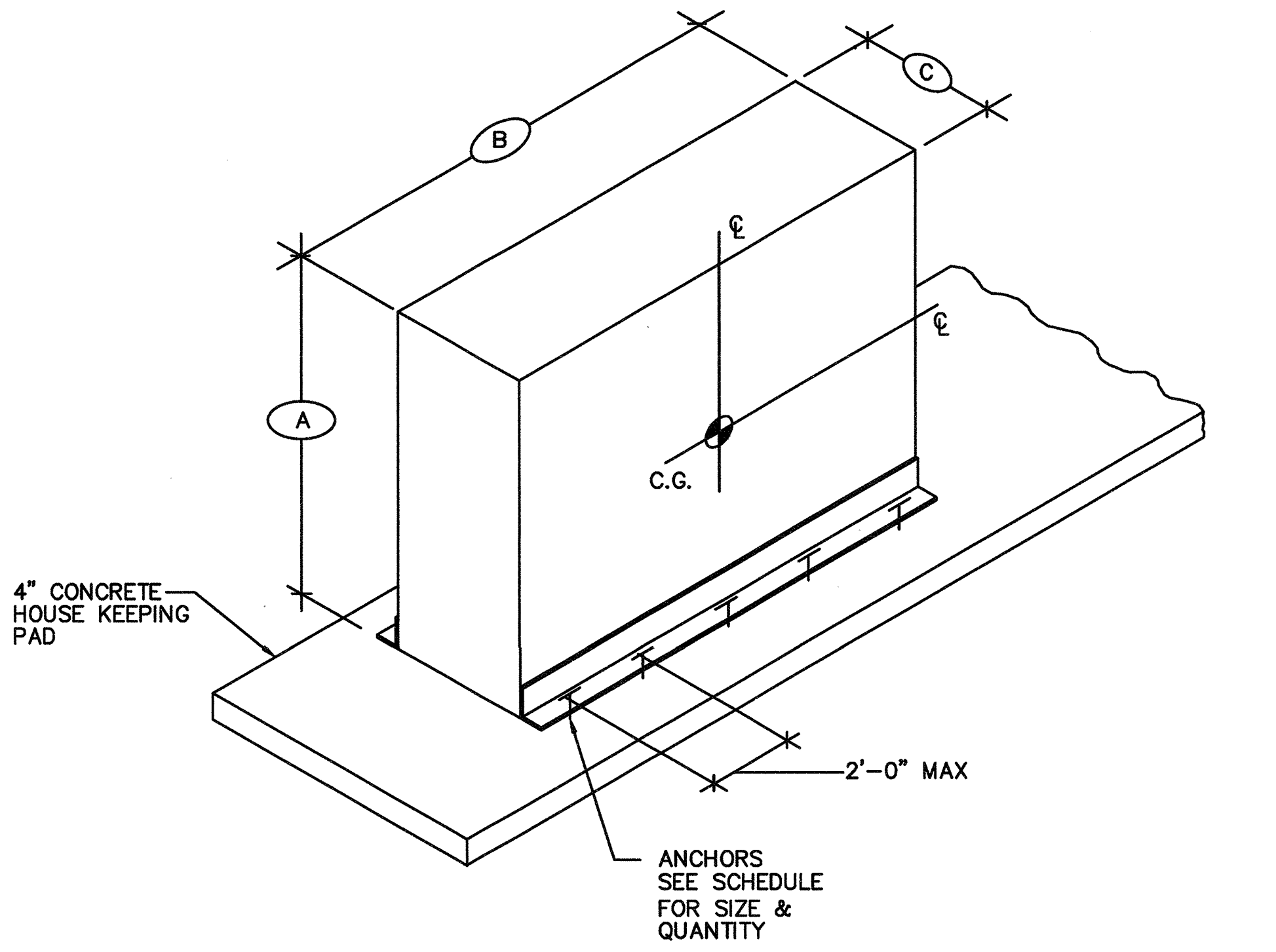
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E400
SHEET TITLE:

DETAILS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



B
C
A
℄
℄
C.G.
4" CONCRETE HOUSE KEEPING PAD
2'-0" MAX
ANCHORS SEE SCHEDULE FOR SIZE & QUANTITY

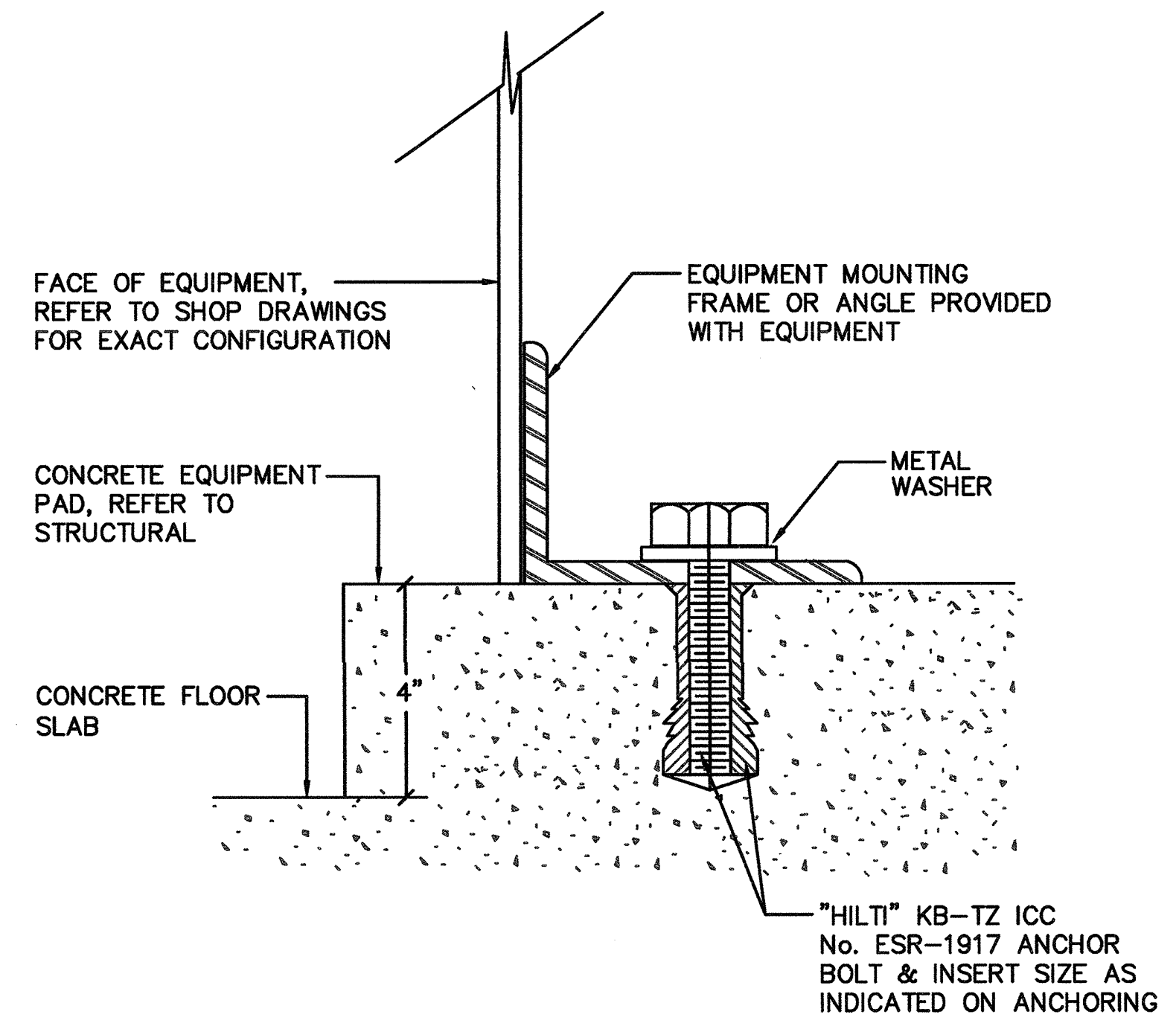
NOTES:

REFER TO EQUIPMENT ANCHORAGE SCHEDULE BELOW

DISTRIBUTION PANEL MOUNTING DETAIL

NOT TO

1



FACE OF EQUIPMENT, REFER TO SHOP DRAWINGS FOR EXACT CONFIGURATION
EQUIPMENT MOUNTING FRAME OR ANGLE PROVIDED WITH EQUIPMENT
CONCRETE EQUIPMENT PAD, REFER TO STRUCTURAL
METAL WASHER
CONCRETE FLOOR SLAB
4"
"HILTI" KB-TZ ICC No. ESR-1917 ANCHOR BOLT & INSERT SIZE AS INDICATED ON ANCHORING

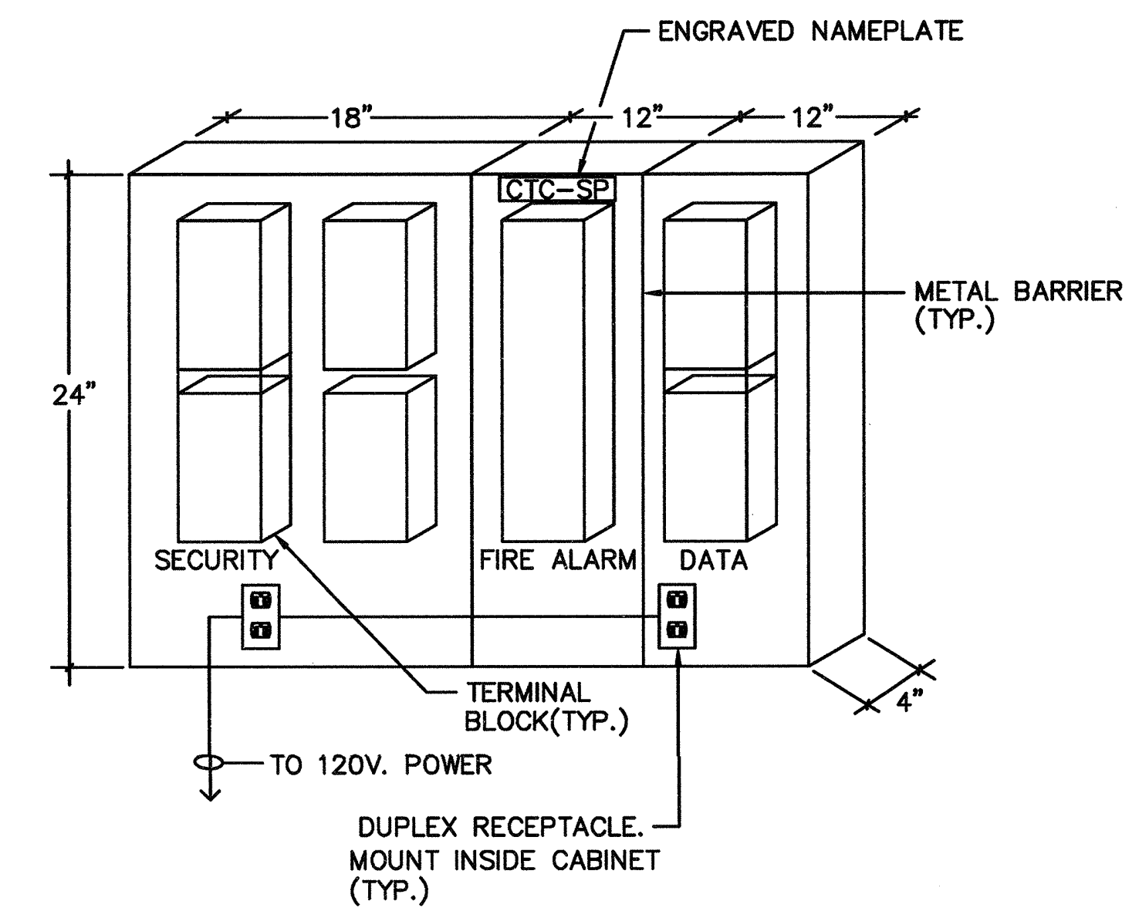
NOTES:

REFER TO EQUIPMENT ANCHORAGE SCHEDULE BELOW

DISTRIBUTION PANEL ANCHORING DETAIL

NOT TO SCALE

2



NOTES:

1. EACH SECTION SHALL HAVE AN INDIVIDUAL HINGED DOOR WITH FLUSH LOCK.
2. PROVIDE PLYWOOD BACKBOARD AND TERMINAL BLOCK(S) IN EACH SECTION AS REQUIRED.
3. PROVIDE ENGRAVED NAMEPLATES FOR CABINETS AND ALL SECTIONS, REFER TO DRAWINGS FOR DESIGNATIONS.

COMMUNICATION TERMINAL CABINET DETAIL

NOT TO SCALE

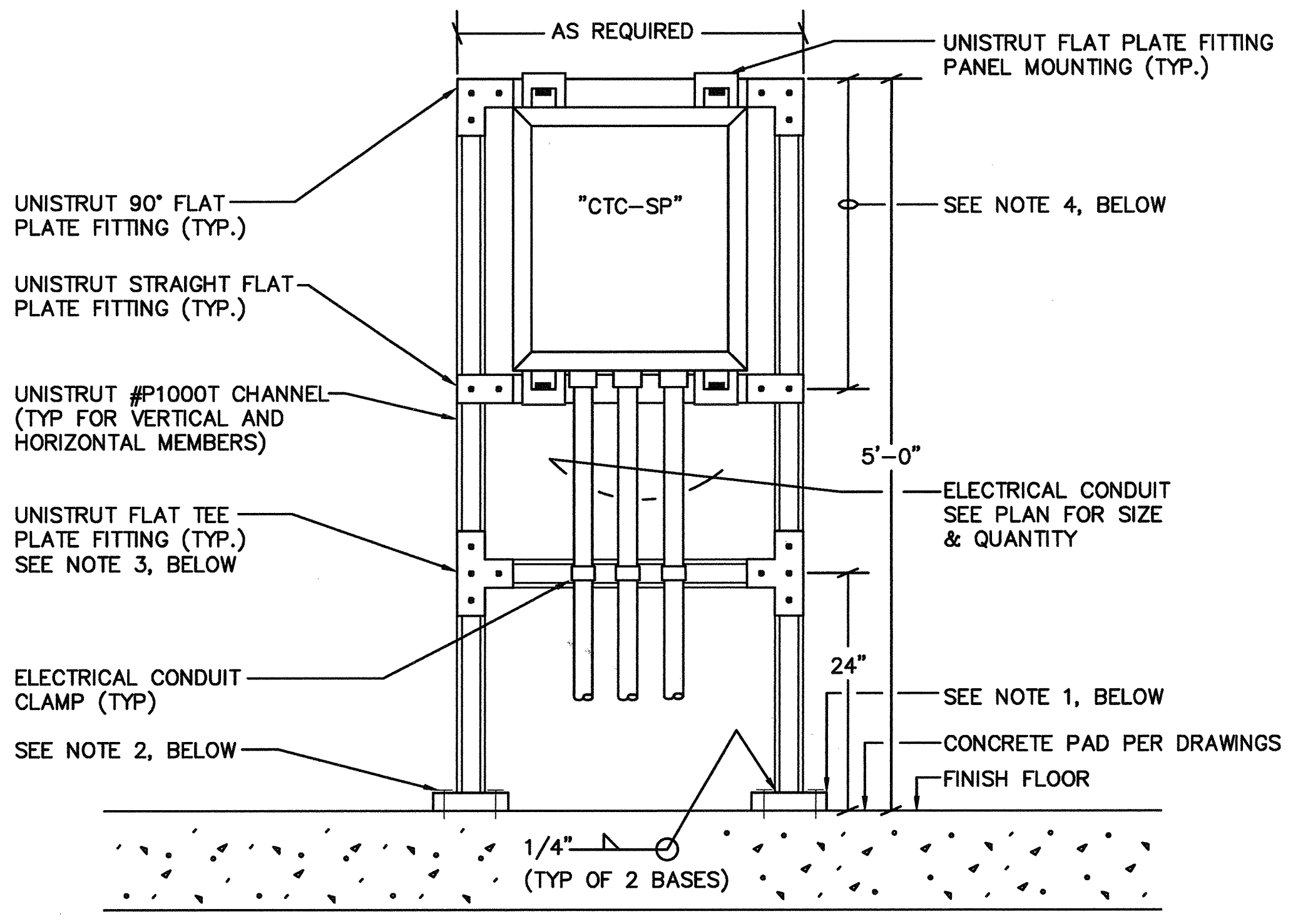
3

SYMBOL	H	W	D	WEIGHT #	MIN. NO ANCHORS	SIZE OF ANCHORS	MINIMUM EMBEDMENT
TR-SP ◇1	68"	45"	36"	3600	4	1/2" ø	2"
DP-SP ◇2	90"	36"	37"	1200	6	1/2" ø	2"

EQUIPMENT ANCHORING SCHEDULE

NOT TO SCALE

4



AS REQUIRED
UNISTRUT FLAT PLATE FITTING PANEL MOUNTING (TYP.)
UNISTRUT 90° FLAT PLATE FITTING (TYP.)
"CTC-SP"
SEE NOTE 4, BELOW
UNISTRUT STRAIGHT FLAT PLATE FITTING (TYP.)
UNISTRUT #P1000T CHANNEL (TYP FOR VERTICAL AND HORIZONTAL MEMBERS)
5'-0"
ELECTRICAL CONDUIT SEE PLAN FOR SIZE & QUANTITY
UNISTRUT FLAT TEE PLATE FITTING (TYP.) SEE NOTE 3, BELOW
24"
ELECTRICAL CONDUIT CLAMP (TYP)
SEE NOTE 1, BELOW
SEE NOTE 2, BELOW
CONCRETE PAD PER DRAWINGS
FINISH FLOOR
1/4"
(TYP OF 2 BASES)

NOTES:

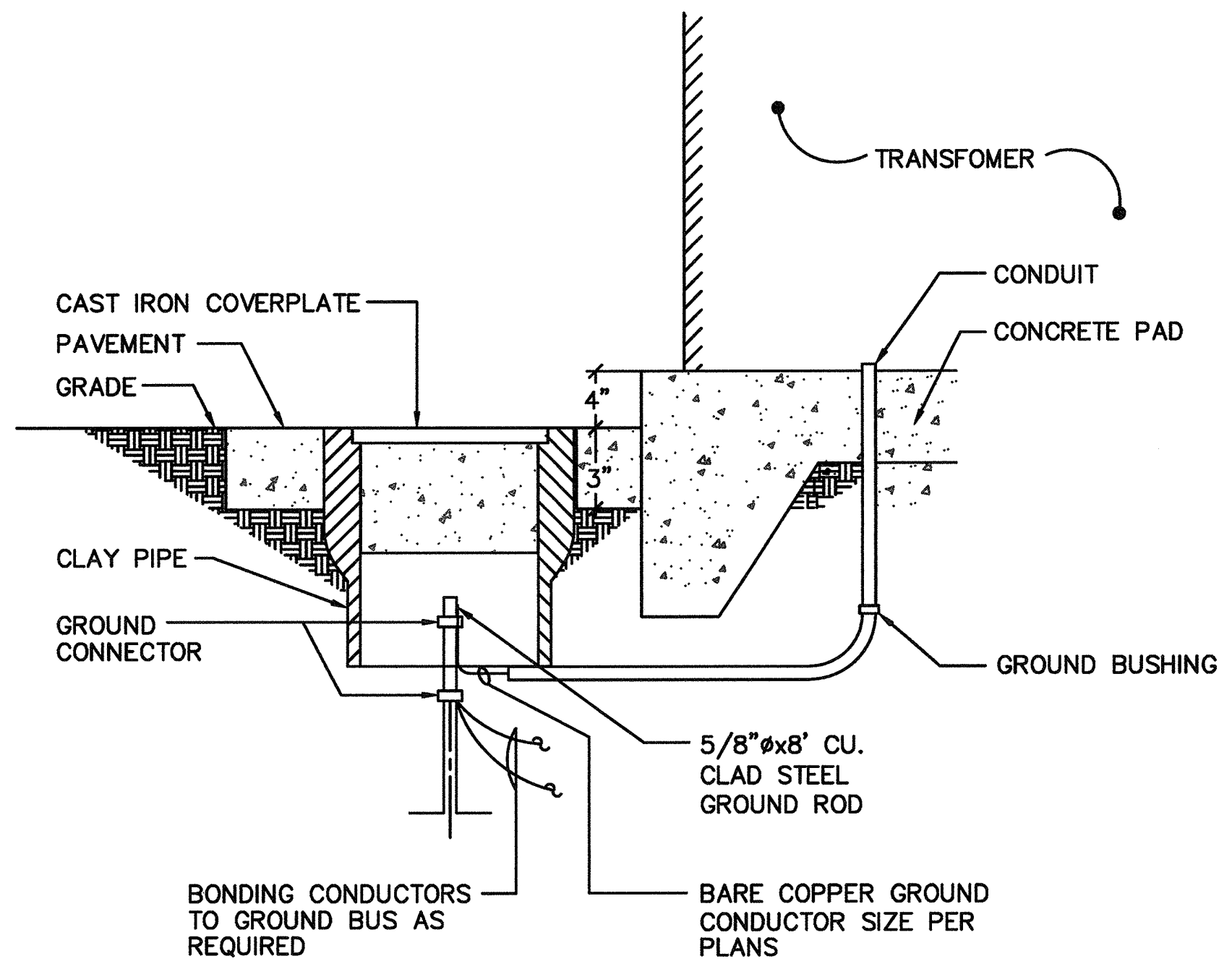
1. PROVIDE/INSTALL 6"L x 6"W x 1/4" THICK STEEL PLATE, FOR MOUNTING OF VERTICAL UNISTRUT, HOLE SPACINGS TO BE 4" DIA. TYPICAL FOR TWO BASES.
2. PROVIDE/INSTALL (2) 5/8"ø X 3" MIN. EMBEDMENT ANCHOR BOLTS. TYPICAL FOR EACH MOUNTING BASE.
3. PROVIDE/INSTALL ALL UNISTRUT NUTS, STUD NUTS, SCREWS, WASHERS, LOCK WASHERS, ETC..., AS REQUIRED FOR MOUNTING OF ALL UNISTRUT CHANNELS AND PLATES AS REQUIRED FOR A COMPLETE ASSEMBLY.
4. HEIGHT AS REQUIRED, VERIFY HEIGHT WITH EQUIPMENT MANUFACTURER.

FOR: PDS-TR6, SDS-TR6

"CTC-SP" MOUNTING DETAIL

NOT TO SCALE

5

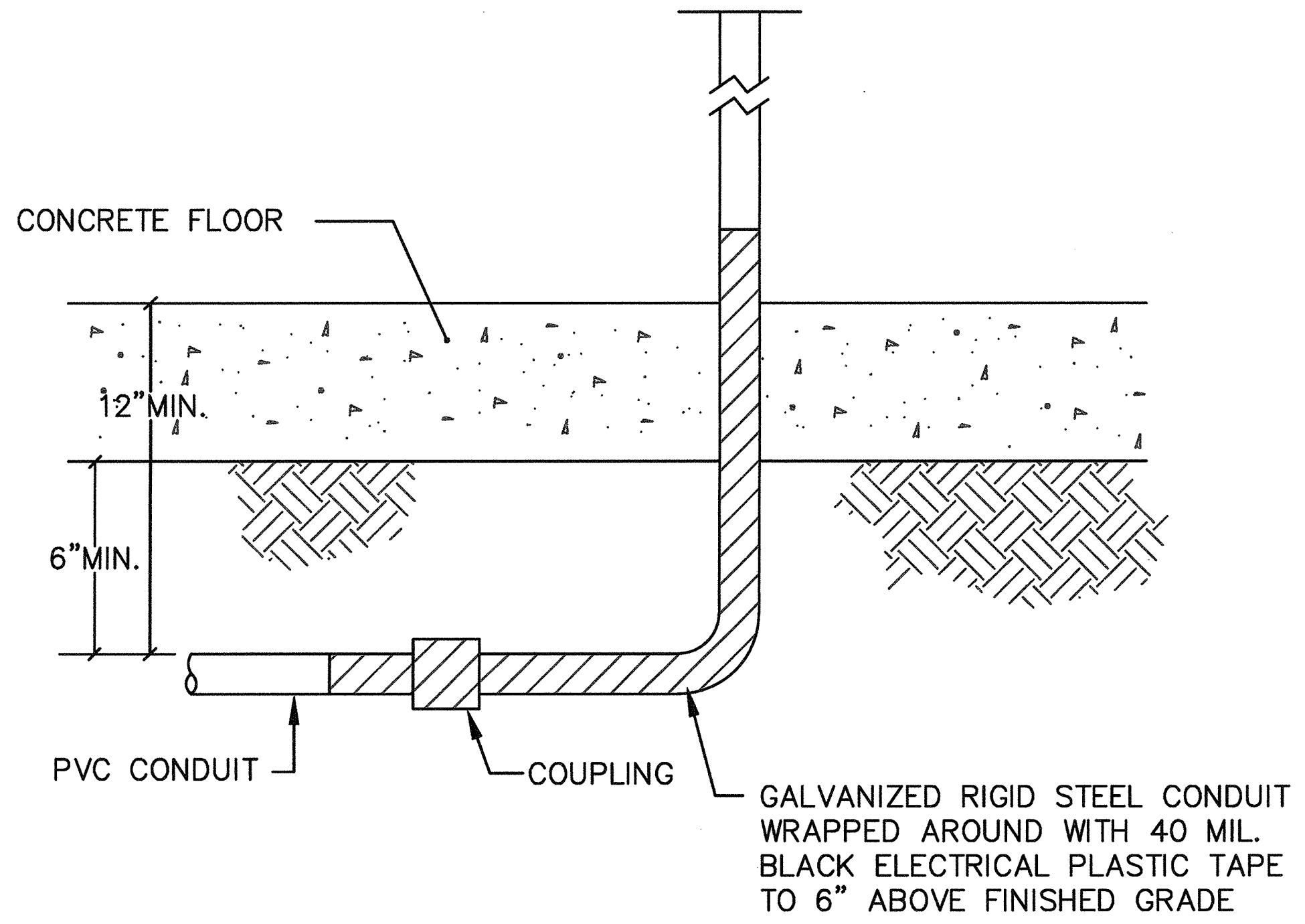


TRANSFOMER
CONDUIT
CONCRETE PAD
CAST IRON COVERPLATE
PAVEMENT
GRADE
4"
3"
CLAY PIPE
GROUND CONNECTOR
GROUND BUSHING
5/8"øx8' CU. CLAD STEEL GROUND ROD
BONDING CONDUCTORS TO GROUND BUS AS REQUIRED
BARE COPPER GROUND CONDUCTOR SIZE PER PLANS

GROUND WELL DETAIL

NOT TO SCALE

6

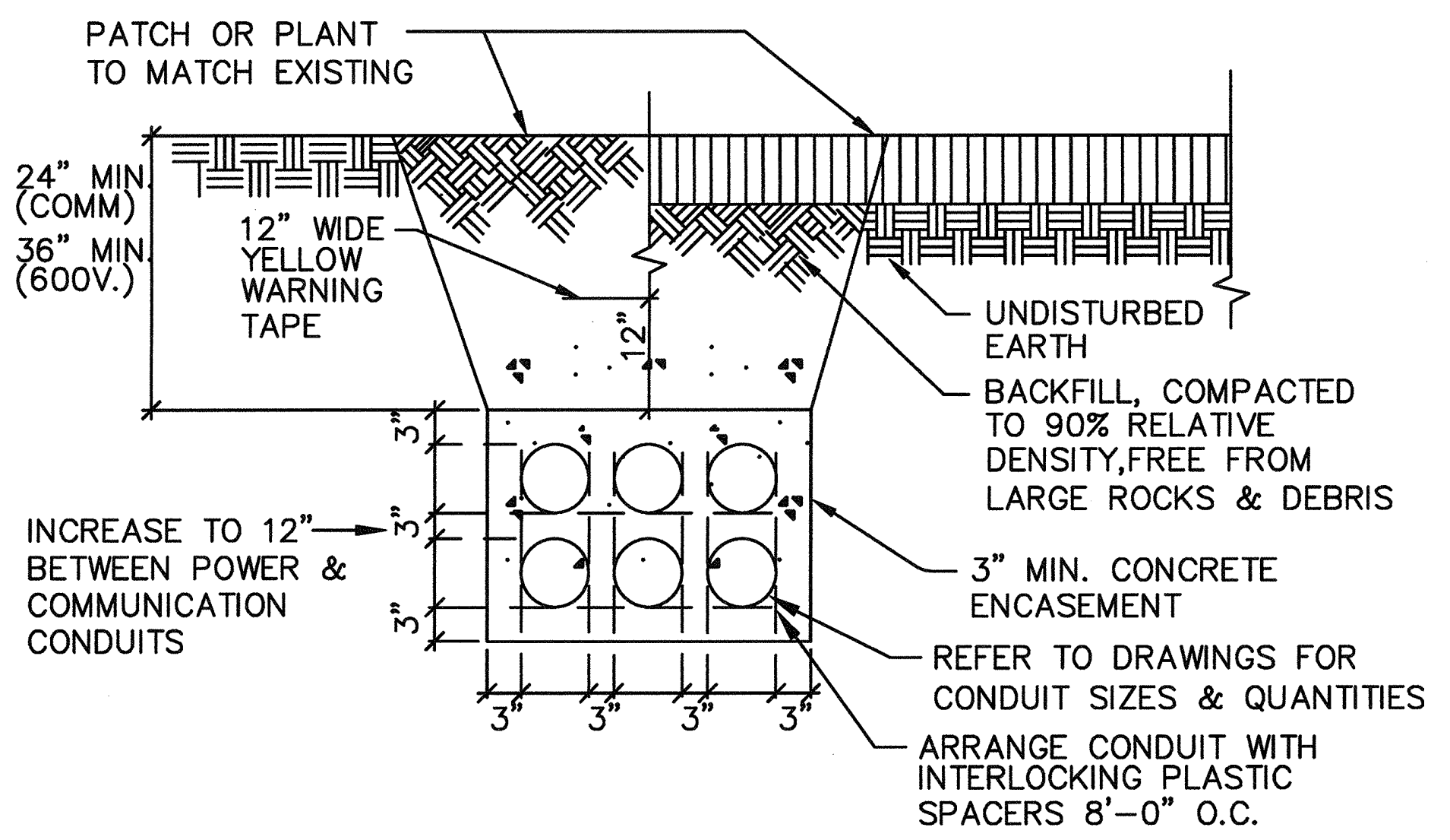


CONCRETE FLOOR
12"MIN.
6"MIN.
PVC CONDUIT
COUPLING
GALVANIZED RIGID STEEL CONDUIT WRAPPED AROUND WITH 40 MIL. BLACK ELECTRICAL PLASTIC TAPE TO 6" ABOVE FINISHED GRADE

CONDUIT INSTALLED BELOW CONCRETE INSIDE BUILDING DETAIL

NOT TO SCALE

7



PATCH OR PLANT TO MATCH EXISTING
24" MIN. (COMM)
36" MIN. (600V.)
12" WIDE YELLOW WARNING TAPE
12"
UNDISTURBED EARTH
BACKFILL, COMPACTED TO 90% RELATIVE DENSITY,FREE FROM LARGE ROCKS & DEBRIS
3"
3"
3"
INCREASE TO 12" BETWEEN POWER & COMMUNICATION CONDUITS
3" MIN. CONCRETE ENCASEMENT
REFER TO DRAWINGS FOR CONDUIT SIZES & QUANTITIES
3"
3"
3"
3"
ARRANGE CONDUIT WITH INTERLOCKING PLASTIC SPACERS 8'-0" O.C.

UNDERGROUND MULTI-CONDUIT PLACEMENT DETAIL

NOT TO SCALE

8

P: \P-2014\2014-115-00\MPE\E401.dwg Jan 13, 2017 - 9:31am

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
Mechanical Electrical Plumbing | Consulting Engineers
Job No. 2014-115-00

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A# 03-117117
AC____ FLS EB SS ____
DATE FEB 0 3 2017
FILE # 19-H10

REVISIONS:

	DESCRIPTION	DATE
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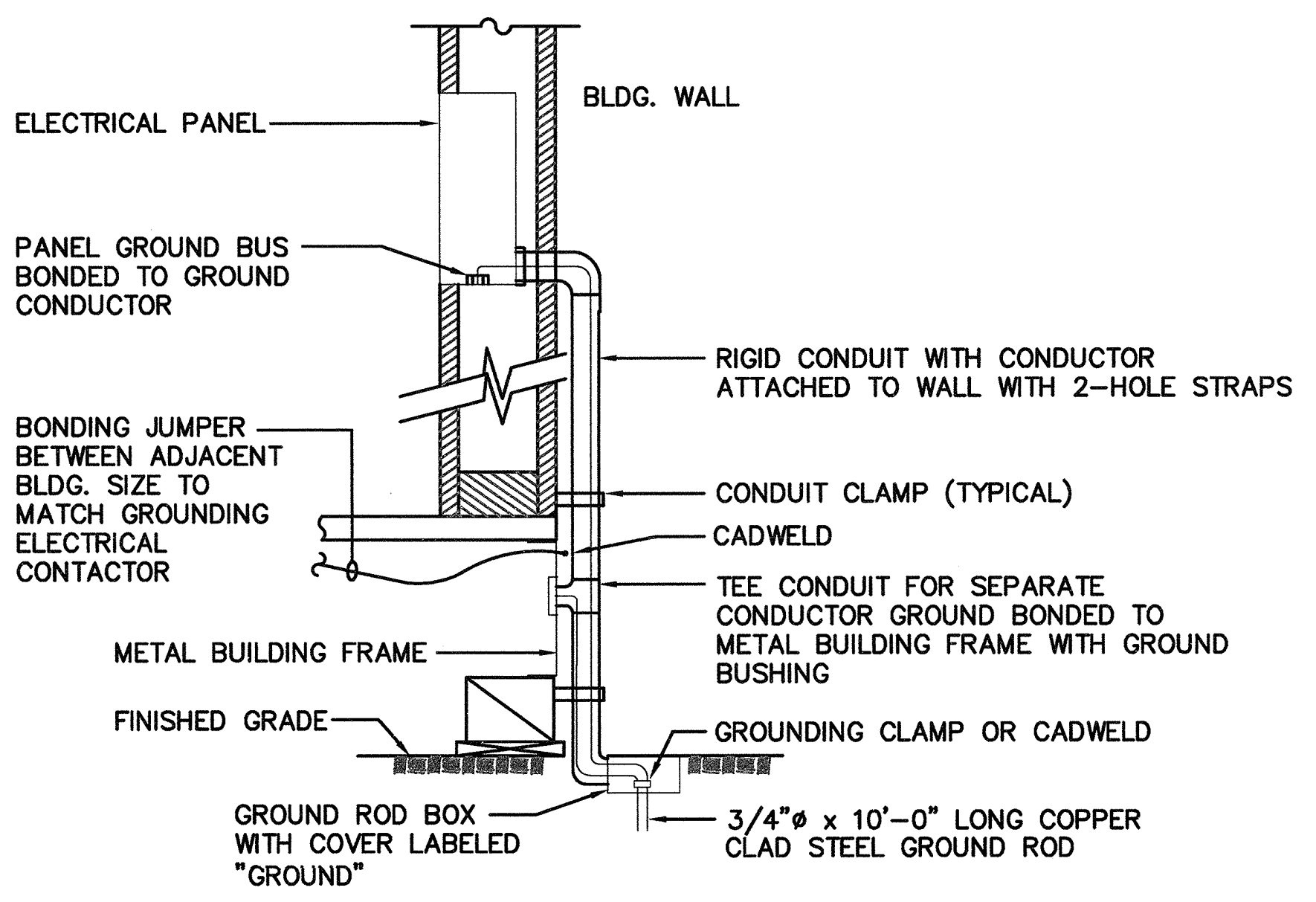
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E401
SHEET TITLE:

DETAILS

E17249
EXP. 06-30-2018

ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

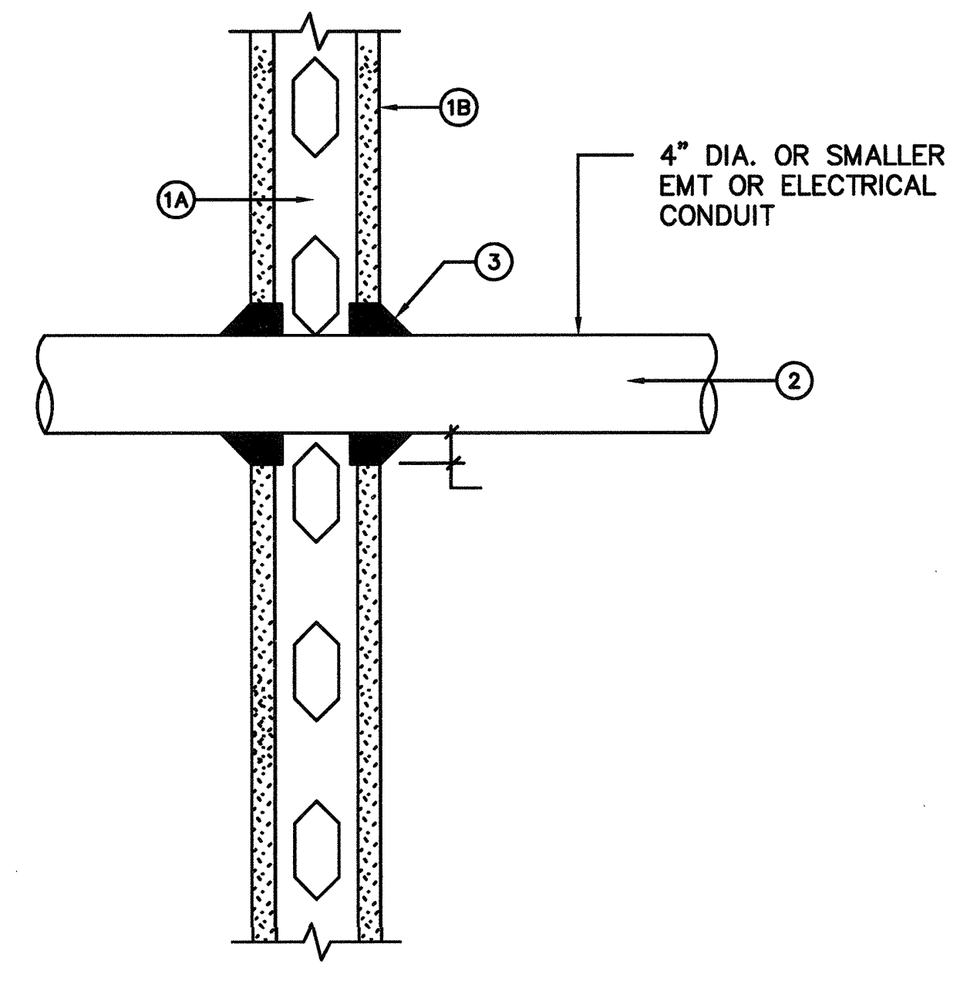

ELECTRICAL PANEL
BLDG. WALL
PANEL GROUND BUS BONDED TO GROUND CONDUCTOR
RIGID CONDUIT WITH CONDUCTOR ATTACHED TO WALL WITH 2-HOLE STRAPS
BONDING JUMPER BETWEEN ADJACENT BLDG. SIZE TO MATCH GROUNDING ELECTRICAL CONTACTOR
CONDUIT CLAMP (TYPICAL)
CADWELD
TEE CONDUIT FOR SEPARATE CONDUCTOR GROUND BONDED TO METAL BUILDING FRAME WITH GROUND BUSHING
METAL BUILDING FRAME
FINISHED GRADE
GROUNDING CLAMP OR CADWELD
GROUND ROD BOX WITH COVER LABELED "GROUND"
3/4"ø x 10'-0" LONG COPPER CLAD STEEL GROUND ROD

NOTES:

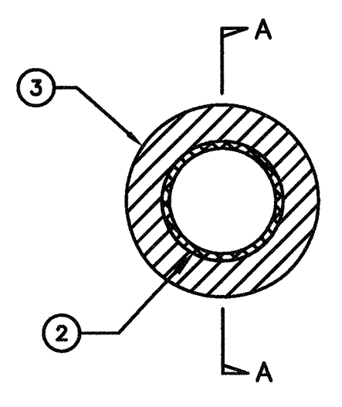
1. SIZE OF CONDUCTOR SHALL COMPLY WITH CEC. TABLE 250-94.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC. 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED FOR AT LEAST 10 FT. IN SOIL IF AVAILABLE (CEC. 250-81 & 250-83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING.).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC. 250-84).
5. GROUND TEST SHALL BE WITNESSED BY PROJECT INSPECTOR, AND RECORDED FOR OWNERS MANUAL.

MODULAR BUILDING GROUNDING DETAIL

NOT TO SCALE 1



SECTION A-A



FRONT VIEW

KEY NOTES:

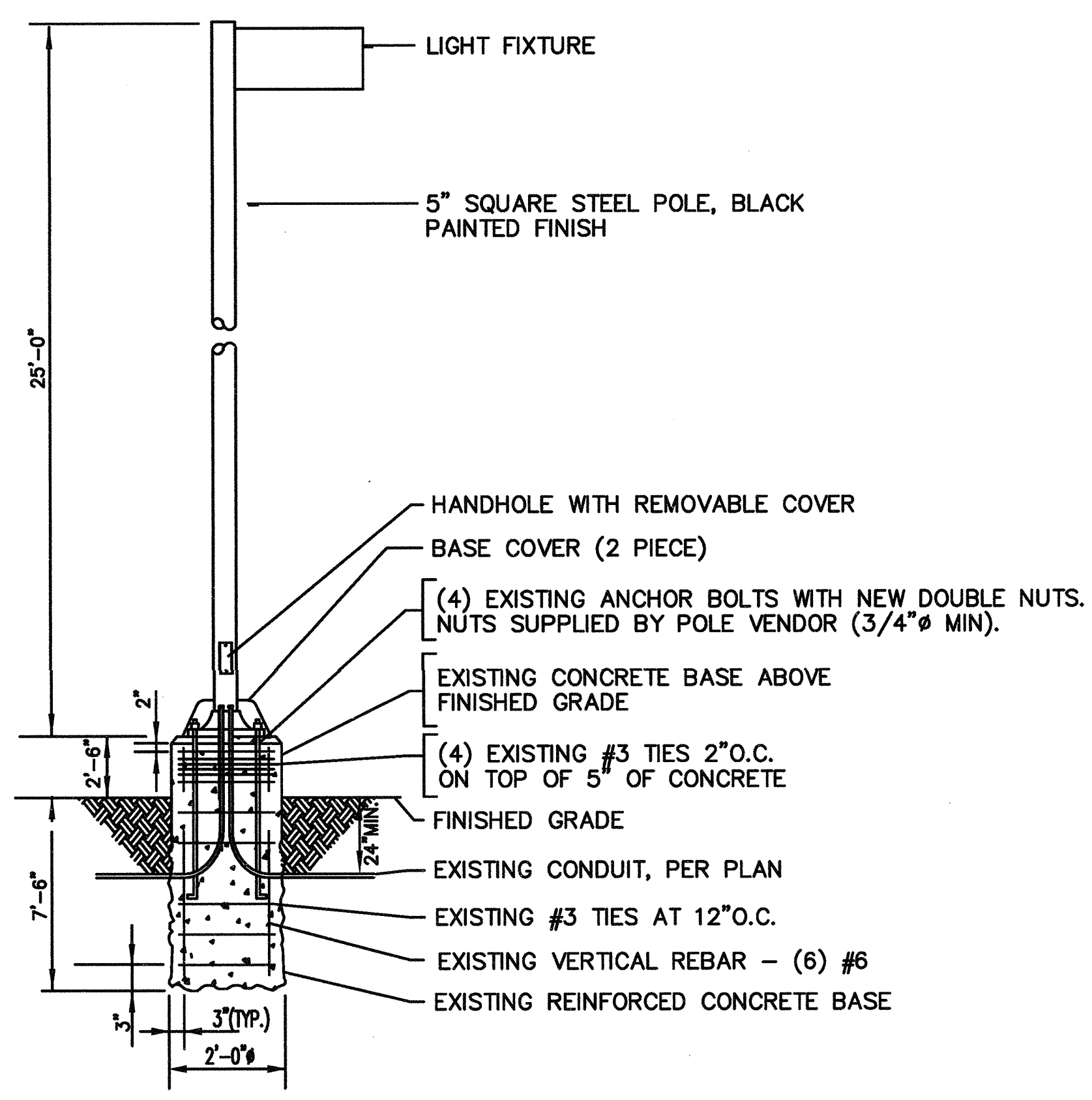
① WALL CONSTRUCTION:
  - 1A EXISTING STEEL STUD WALL.
  - 1B EXISTING 5/8" TYPE X GYPSUM BOARD AND WALL SURFACE.

② CONDUIT SIZE PER DRAWINGS

③ U.L. APPROVED SILICON SEALANT. APPLY TO INTERFACE WITH WALL SURFACE. SUBMIT SEALANT TYPE FOR REVIEW AND APPROVAL PRIOR TO APPLICATION.

CONDUIT PENTRATION THRU EXTERIOR WALL DETAIL

NOT TO SCALE 2


LIGHT FIXTURE
5" SQUARE STEEL POLE, BLACK PAINTED FINISH
25'-0"
HANDHOLE WITH REMOVABLE COVER
BASE COVER (2 PIECE)
(4) EXISTING ANCHOR BOLTS WITH NEW DOUBLE NUTS. NUTS SUPPLIED BY POLE VENDOR (3/4"ø MIN).
EXISTING CONCRETE BASE ABOVE FINISHED GRADE
(4) EXISTING #3 TIES 2"O.C. ON TOP OF 5" OF CONCRETE
FINISHED GRADE
EXISTING CONDUIT, PER PLAN
EXISTING #3 TIES AT 12"O.C.
EXISTING VERTICAL REBAR – (6) #6
EXISTING REINFORCED CONCRETE BASE
2"
2'-6"
24" MIN.
7'-6"
3"
3"(TYP.)
2'-0"ø

NOTE:

POLE STANDARD IS FOR BIDDING PURPOSES ONLY. CONTRACTOR TO COORDINATE EXACT REQUIREMENTS WITH PROJECT STRUCTURAL ENGINEER.

POLE MOUNTED LIGHTING FIXTURE DETAIL (NOT FOR DSA REVIEW)

NOT TO SCALE 3

-

NOT TO SCALE 4

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NOT TO SCALE 5

-

NOT TO SCALE 6

-

NOT TO SCALE 7

-

NOT TO SCALE 8

E17249
EXP. 06-30-2018

P: \P-2014\2014-115-00\MPE\E402.dwg Dec 01, 2016 - 4:56pm

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

PBS ENGINEERS
2100 East Route 66, Suite 101 Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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Job No. 2014-115-00

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FILE # 19-H10

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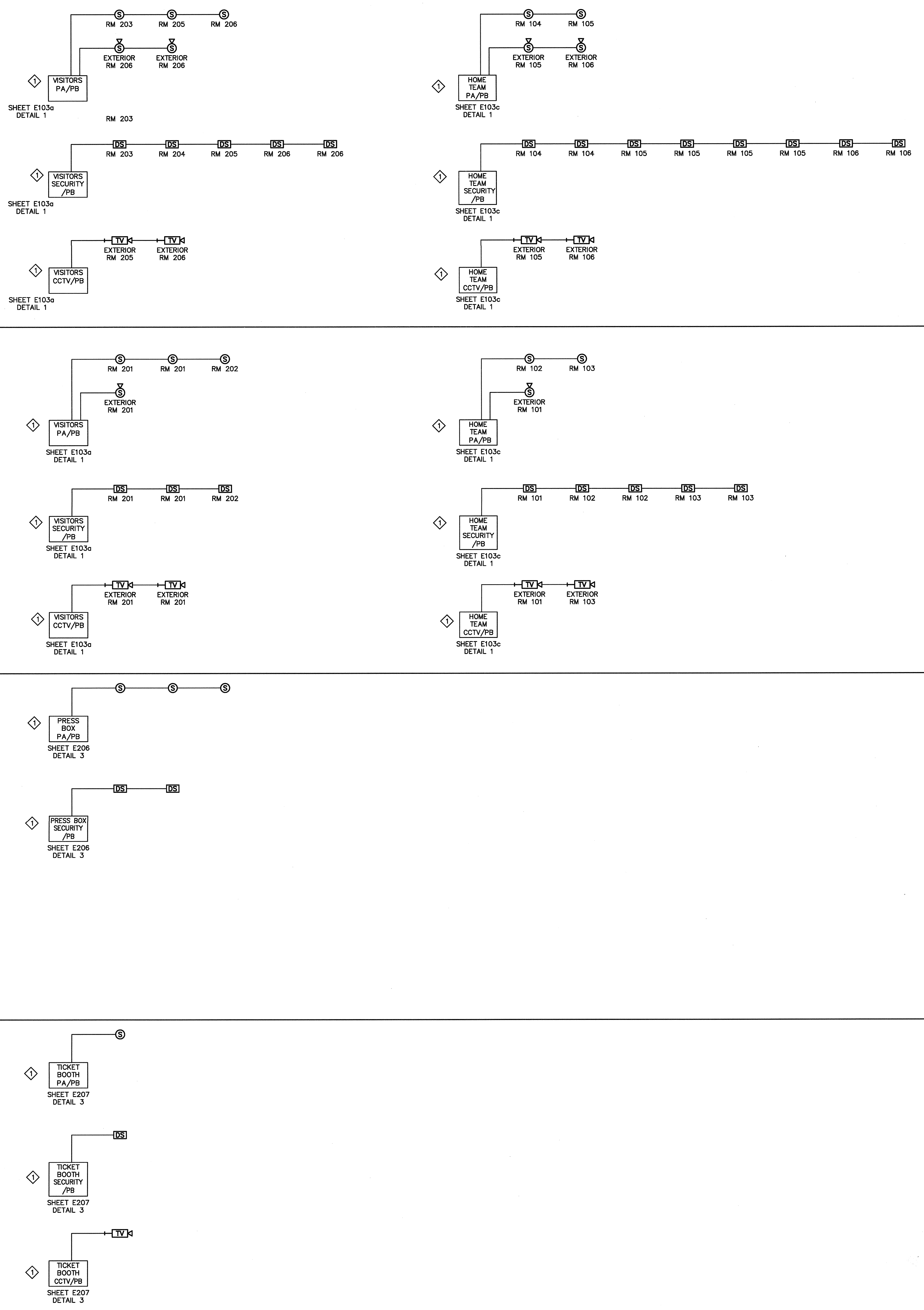
DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: **E402**
SHEET TITLE:

DETAILS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



SIGNAL SYSTEM BLOCK DIAGRAM

NOT TO SCALE

8

KEY NOTES

◇1 REFER TO SITE PLAN SHEET FOR CONTINUATION. TYPICAL

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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T. 626.650.0350 F. 626.650.0352 www.pbsengineers.com
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A# 03-117117
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DATE ISSUED: 01-23-2017
PROJECT NO: 2014-40163
SCALE: AS SHOWN

SHEET NUMBER: E403
SHEET TITLE:

DETAILS

E17249
EXP. 06-30-2018

ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

A# **03-117117**
AC N.N. FLS EB SS
DATE FEB 0 3 2017
FILE # 19-H10

GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

SHEET TITLE	SHEET #	SHEET TITLE	SHEET #
GENERAL NOTES	B-1	UNDERSTRUCTURE LAYOUT (VISITOR)	B-17
SEATING LAYOUT (HOME)	B-2	ELEVATION VIEW (VISITOR)	B-18
FOOTING LAYOUT (HOME)	B-3	SEAT BRACKET LAYOUT (VISITOR)	B-19
PIER DESIGN (HOME)	B-4	SECTION VIEW (VISITOR)	B-20
UNDERSTRUCTURE LAYOUT (HOME)	B-5	EXIT DETAIL	B-21
ELEVATION VIEW (HOME)	B-6	EXIT DETAIL	B-22
SEAT BRACKET LAYOUT (HOME)	B-7	EXIT DETAIL	B-23
SECTION VIEW (HOME)	B-8	ALUMINUM DETAIL SHEET	B-24
SECTION VIEW @ PRESSBOX (HOME)	B-9	DETAIL SHEET	B-25
PRESSBOX PLAN SHEET (HOME)	B-10	DETAIL SHEET	B-25A
PRESSBOX FRAMING LAYOUT (HOME)	B-11	SIDE VIEW	B-26
PRESSBOX DETAIL SHEET (HOME)	B-12	ANGLE FAB/GUARDRAIL DETAILS	B-27
PRESSBOX CEILING DETAIL (HOME)	B-13	SEATING/CROSSBRACE LAYOUT	B-28
SEATING LAYOUT (VISITOR)	B-14	CONCRETE/CROSSBRACE LAYOUT	B-29
FOOTING LAYOUT (VISITOR)	B-15	ANGLE FRAME/ALUM. PLANK DETAIL	B-30
PIER DESIGN (VISITOR)	B-16		

REVISION 5 - 12/13/16
REVISION 4 - 10/14/16
REVISION 3 - 04/08/16
REVISION 2 - 03/03/16
REVISION 1 - 11/23/15

HOME STAND GENERAL INFORMATION	
RISE:	12"
TREAD:	24"
ROWS:	22
LENGTH:	103'-6"
SEAT COUNT:	1173

VISITOR STAND GENERAL INFORMATION	
RISE:	12"
TREAD:	24"
ROWS:	22
LENGTH:	68'-9"
SEAT COUNT:	824

ANGLE FRAME GENERAL INFORMATION	
RISE:	8"
TREAD:	24"
ROWS:	7
LENGTH:	33'-0"
SEAT COUNT:	114

#14202 - EL MONTE, CALIFORNIA

GENERAL NOTES & SITE CONDITIONS

1. ALL DIMENSION PERTAINING TO GRANDSTAND AND SITE CONDITIONS/OBJECTS TO BE FIELD VERIFIED OR LOCATED PRIOR TO FABRICATION BY OWNER OR OWNERS REP.

2. AS SPECIFIED AND ILLUSTRATED, ALL ALUMINUM FOOTBOARDS AND WALKING SURFACES ARE MILL FINISH. MILL FINISH ALUMINUM, WHEN EXPOSED TO THE ATMOSPHERE, FORMS A TRANSPARENT, PROTECTIVE OXIDE COATING. MILL FINISH ALUMINUM WILL STAIN WHEN MOISTURE IS TRAPPED AGAINST IT. THIS MOISTURE ENTRAPMENT CAN OCCUR AT SEVERAL STAGES OF MATERIAL DELIVERY, INCLUDING PACKAGING, SHIPPING AND STORAGE. THESE STAINS CAN BE ERRATIC AND VARY IN COLOR FROM LIGHT BRONZE TO BLACK TO CHALKY WHITE. MOISTURE STAINS HAVE NO EFFECT ON THE STRENGTH OF THE MATERIAL. THESE STAINS BECOME LESS NOTICEABLE DURING NORMAL USAGE AND EXPOSURE TO THE SUN'S RADIATION.

DESIGN LOADING

TREAD & SEAT AREA 100psf UNIFORM LIVE LOAD.
SEAT (VERTICAL) 120 lbs/lf.
SEAT (HORIZONTAL SWAY) 24lbs/lf PARALLEL AND 10lbs/lf PERPENDICULAR TO SEAT.
HANDRAIL & GUARDRAIL 50 lbs/lf IN ANY DIRECTION.
HANDRAIL & GUARDRAIL 200 lbs CONCENTRATED IN ANY DIRECTION.
SNOW LOADS AS PER STATE ADOPTED CODE
WIND LOADS AS PER STATE ADOPTED CODE
SEISMIC LOADS AS PER STATE ADOPTED CODE

Southern® BLEACHER COMPANY
GRANDSTANDS ▪ BLEACHERS ▪ STADIUMS

PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365

Established 1946

NOTES

1. STRUCTURAL SHAPES MEET ONE OF THE FOLLOWING ASTM SPECIFICATIONS: A36, A36/A572 GRADE 50, A572 GRADE 50, A529-50, OR A500 GRADE B.
2. WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG.
3. ALL STEEL TO BE HOT DIPPED GALVANIZED TO A.S.T.M. A-123-89 ae1.
4. STRUCTURAL BOLTS ARE HOT DIPPED GALV. AND ARE EQUAL TO OR GREATER THAN A-307.
5. NO CONNECTIONS UTILIZING HIGH STRENGTH BOLTS ARE CLASSED AS SLIP CRITICAL.
6. ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE. (1 5/8" O.D.)
7. SOUTHERN BLEACHER COMPANY AS A MANUFACTURER AND INSTALLER OF GRANDSTAND SEATING IS NOT AUTHORIZED TO CERTIFY PLANS AS ADA COMPLIANT. HOWEVER, TO THE BEST OF OUR KNOWLEDGE THESE PLANS MEET OR EXCEED ADA REQUIREMENTS FOR QUANTITY OF ADA SEATING, ACCESS/EGRESS TO ADA SEATING, & DISPERSAL OF ADA SEATING.
8. ALL FIELD CONNECTIONS ARE NON-SLIP CRITICAL U.N.O. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS, IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC.

OWNER/REPRESENITIVE/ARCHITECTUAL REVIEW

PLEASE REVIEW THE DRAWINGS FOR COMPLIANCE WITH YOUR ORDER. PLEASE INDICATE ANY CHANGES OR COMMENTS ON THE DRAWINGS.

☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE AND RE-SUBMITT

SIGNATURE ____________
TITLE ____________
DATE ____________

DATE: 3-23-15
JOB #14202
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

SHEET
B-0

GENERAL REQUIREMENTS:

1. CONFLICTS: NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.

2. CODES: ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2013 CALIFORNIA BUILDING CODE (CBC).

3. SIMILAR WORK: WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.

4. EXCAVATIONS: OWNER TO LOCATE AND PROTECT UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED.

DESIGN CRITERIA

1. DEAD LOADS:
   BLEACHERS (EXCLUDING GIRDERS)...................... 10 PSF

2. LIVE LOADS:
   LIVE LOAD.. 100 PSF
   SEATS... 120 PLF
   FOOTBOARDS... 100 PSF
   SWAY (PERPENDICULAR)...................................... 10 PLF
   SWAY (PARALLEL).. 24 PLF
   GUARDRAILS AND HANDRAILS*............................ 50 PLF
   * OR A 200 POUND CONCENTRATED LOAD APPLIED TO RAIL AT ANY POINT IN ANY DIRECTION.

   PRESSBOX:
   DEAD LOADS
   FLOOR.. 10 PSF
   ROOF.. 15 PSF
   LIVE LOADS
   FLOOR/ROOF...................................... 100 PSF

3. LATERAL LOADS:
   A) SEISMIC – SHORT PERIOD
   SPECTRAL RESPONSE.. Ss = 2.367 g
   ONE – SECOND PERIOD
   SPECTRAL RESPONSE.. S1 = 0.821 g
   SITE CLASSIFICATION... D
   SITE COEFFICIENT... Fa = 1.0
   SITE COEFFICIENT... Fv = 1.5
   ADJUSTED SPECTRAL RESPONSE........................ Sms = 2.367 g
   ADJUSTED SPECTRAL RESPONSE........................ Sm1 = 1.232 g
   DESIGN SPECTRAL RESPONSE............................ SDS = 1.578 g (2/3 Sms)
   DESIGN SPECTRAL RESPONSE............................ SD1 = 0.821 g (2/3 Sm1)
   RISK CATEGORY: III
   rho = 1.0
   I = 1.25
   SEISMIC DESIGN CATEGORY................................ E
   R = 1.25
   LATERAL SYSTEM: ALL OTHER SELF–SUPPORTING STRUCTURES
   Cs = 1.578
   V = CsW = 1.105W (SERVICE)
   B) WIND V_{ULT} = 115 mph
   EXPOSURE C

FOUNDATION:

1. GEOTECHNICAL INVESTIGATION: HARRINGTON GEOTECHNICAL ENGINEERING, INC. HGEI PROJECT NO. 09–EM–0017 DECEMBER 16, 2009 REVISIED/UPDATED FEBRUARY 18, 2015

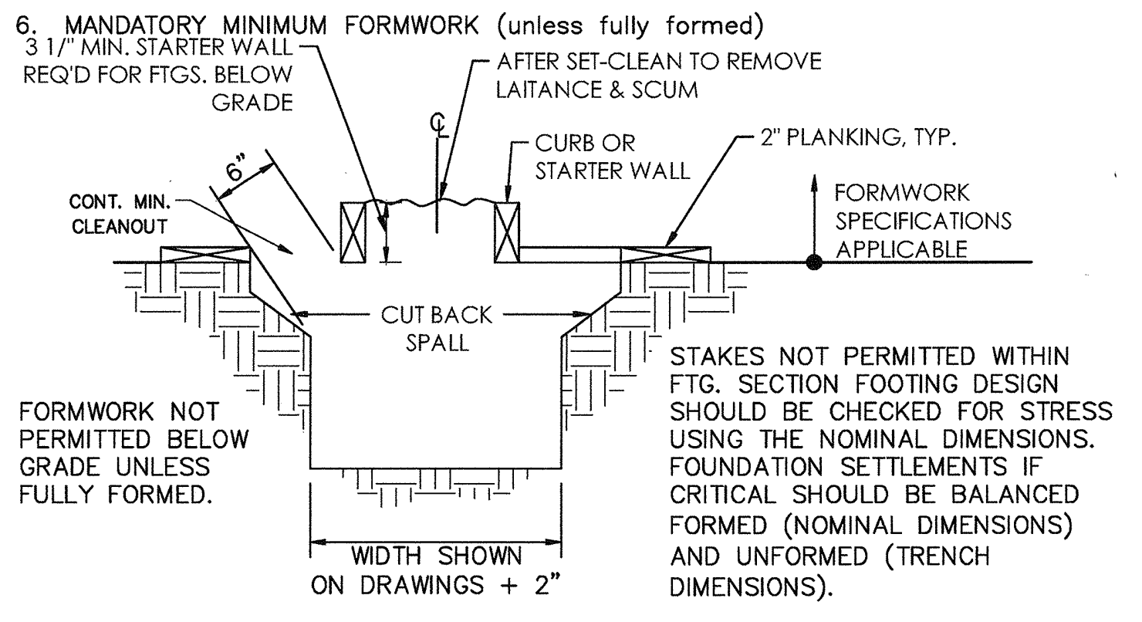
2. SOIL PRESSURES:
   SOIL BEARING.. 2500 PSF
   COEFFICIENT OF FRICTION.................................. 0.40
   PASSIVE PRESSURE.. 300 PCF

3. SOIL REMOVAL AND RECOMPACTION: PER GEOTECHNICAL INVESTIGATION AND THE CONTRACT DOCUMENTS. SOILS WORK SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER.

4. GEOTECHNICAL ENGINEER: SHALL OBSERVE FOOTINGS BEFORE PLACEMENT OF REINFORCING OR CONCRETE. FOOTING OBSERVATION AND COMPACTION REPORTS SHALL BE SENT TO THE ARCHITECT AND DSA.

5. SOIL PREPARATION: AS INDICATED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS SPECIFIED IN THE PROJECT SPECIFICATIONS. COORDINATE WITH GEOTECHNICAL ENGINEERS.

6. MANDATORY MINIMUM FORMWORK (unless fully formed)

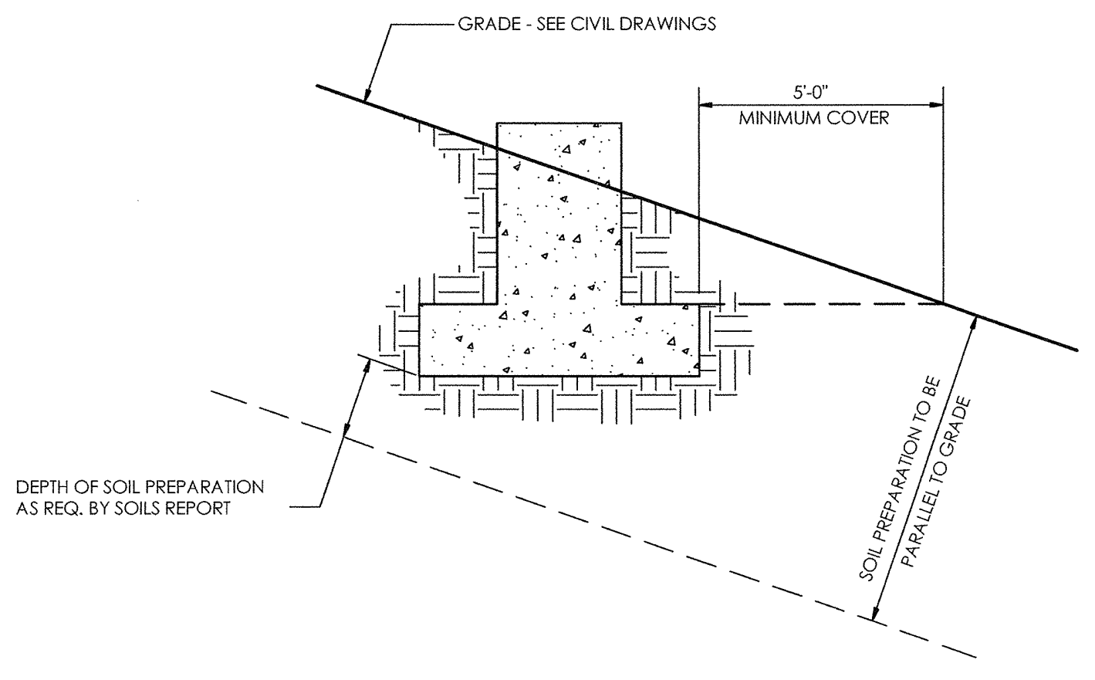

3 1/" MIN. STARTER WALL REQ'D FOR FTGS. BELOW GRADE
AFTER SET-CLEAN TO REMOVE LAITANCE & SCUM
℄
CURB OR STARTER WALL
2" PLANKING, TYP.
6"
CONT. MIN. CLEANOUT
FORMWORK SPECIFICATIONS APPLICABLE
CUT BACK SPALL
FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
WIDTH SHOWN ON DRAWINGS + 2"
STAKES NOT PERMITTED WITHIN FTG. SECTION FOOTING DESIGN SHOULD BE CHECKED FOR STRESS USING THE NOMINAL DIMENSIONS. FOUNDATION SETTLEMENTS IF CRITICAL SHOULD BE BALANCED FORMED (NOMINAL DIMENSIONS) AND UNFORMED (TRENCH DIMENSIONS).

A. STARTER WALL REQUIRED FOR ALL MASONRY OR CONCRETE WALLS.

B. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.

FOUNDATION: (CONT.)

7. FOUNDATIONS GEOTECHNICAL / GRADING REQUIREMENTS:


GRADE - SEE CIVIL DRAWINGS
5'-0"
MINIMUM COVER
DEPTH OF SOIL PREPARATION AS REQ. BY SOILS REPORT
SOIL PREPARATION TO BE PARALLEL TO GRADE

CONCRETE NOTES:

1. MAXIMUM SIZE AGGREGATE SHALL BE AS FOLLOWS:
   1 1/2"Ø
   AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C33.
   GRADING OF AGGREGATE SHALL CONFORM TO TITLE 24, PART 2 CHAPTER 19–A. CBC.

2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000

3. ALL REINFORCING SHALL BE ASTM A615 GRADE 40 FOR #3, GRADE 60 FOR #4 AND LARGER. REINF. TO BE WELDED SHALL BE ASTM A706.

4. ALL DIMENSIONS SHOWN FOR LOCATION OF REINFORCING STEEL ARE TO FACE OF BAR AND DENOTE CLEAR COVERAGE. UNLESS SPECIFICALLY NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:
   3" FOR CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)
   2" FOR CONCRETE EXPOSED TO GROUND OR WEATHER BUT PLACED IN FORMS.
   1 1/2" TO TIES IN COLUMNS
   1 1/2" STIRRUPS IN BEAMS
   3/4" FOR BARS IN SLABS ON FORMS
   PLACE REINF. AT MID–THICKNESS FOR SLABS ON GROUND.

5. ALL SPLICES IN CONTINUOUS REINFORCEMENT OR REINFORCING AS USED IN WALLS, FOOTINGS, ETC. SHALL HAVE A MINIMUM LAP OF 72 DIAMETERS. SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN 4'–0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINF. OF BEAM AND SLABS, OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED.

6. CONCRETE SHALL NOT BE DROPPED THROUGH REINF. STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET AND SUFFICIENT NUMBER SHALL BE USED TO INSURE THE CONCRETE BEING LEVEL AT ALL TIMES.

7. HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSED CLEAN AGGREGATE SOLIDLY EMBEDDED.

8. ALL STEEL COLUMN BASE PLATES AND STEEL BEAMS BEARING ON CONCRETE SHALL BEAR UPON 1" DRYPACK AND LEVELING NUTS EXCEPT AS NOTED OTHERWISE.

9. WHERE STEEL MEMBERS BEAR IN CONCRETE OPENINGS SHALL BE DRY–PACKED AFTER STEEL IS IN PLACE.

STRUCTURAL STEEL:

1. CODES: AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION FOR STRUCTURAL STEEL FOR BUILDINGS; MANUAL OF STEEL CONSTRUCTION (14TH EDITION); STRUCTURAL WELDING CODE AWS D1.1 AND AWS D1.4. PIPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION IN ACCORDANCE WITH ASTM A–53 AND TUBE SHAPES IN ACCORDANCE WITH ASTM A–500.

2. IDENTIFICATION: ROLLED STRUCTURAL STEEL SHAPES SHALL BE IDENTIFIED WITH MILL IDENTIFICATION MARKS IN CONFORMANCE WITH ASTM A6.

3. MATERIALS:
   STRUCTURAL SHAPES
   WIDE FLANGE......................... ASTM A–992 GRADE 50, Fy–50 KSI U.N.O.
   CHANNELS AND ANGLES........ A36–12 / A529–05 / A36 / A36M–12 GRADE 50, Fy=50 KSI
   SWAYRODS............................. ASTM A572 Fy=50 ksi GRADE 50
   HSS SHAPES (TUBE COLUMNS). ASTM A–500 GRADE B 46 KSI
   PLATES.................................. A36–12 / A529–05 / A36 / A36M–12 GRADE 50, Fy=50 KSI, U.N.O.
   BOLT S.................................... ASTM A–307, TYPICAL U.N.O (HOT DIP GALVANIZED)
   NUTS...................................... HEAVY HEX (HOT DIP GALVANIZED)
   NON–SHRINK GROUT.............. ASTM C–1107 7,000 PSI (NON–METALLIC)

4. WELDING: ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.1. WELDS ARE ALL AROUND WITH TYPE ER70S–6 WIRE MIG U.N.O.

5. ALL STEEL SHALL BE HOT DIP GALVANIZED TO A.S.T.M. A–123.

6. ALL FIELD CONNECTIONS ARE NON–SLIP CRITICAL U.N.O. ALL CONNECTIONS ARE DESIGNED TO UTILIZE A307 BOLTS, IT IS ACCEPTABLE TO USE A325N BOLTS IN LIEU OF THE A307 BOLTS. THE INSTALLATION OF THESE BOLTS ARE TO BE TIGHTENED A SNUG TIGHT CONDITION AS SPECIFIED BY AISC.

7. SWAYROD THREADS SHALL BE PINGED WITH A HAMMER TO ELIMINATE REMOVAL OF NUT, AFTER FINAL TIGHTENING.

COLD FORMED MEMBERS (PRESS BOX):

MATERIALS: STRAPS, TUBES AND CHANNELS......... A1011 cs TYPE B
Fy = 33 KSI Fu = 48 KSI

1. CODES AND FABRICATION: STEEL STUD MANUFACTURER'S ASSOCIATION ICC ESR 3064P OR APPROVED EQUAL.

2. COLD FORMED SHAPES SHALL BE LIMITED TO A THICKNESS OF 11 GAGE OR THINNER.

ALUMINUM:

1. MATERIALS: ALUMINUM
   SHAPES......................ALLOY 6061–T6 OR 6005–T5 (Fy = 35 KSI)
   PLANKING...................ALLOY 6063–T6 (Fy = 25 KSI)

2. DISSIMILAR MATERIALS: WHERE ALUMINUM SURFACES ARE IN CONTACT WITH STEEL, THE STEEL SHALL BE GALVANIZED.

3. MILL FINISHED ALUMINUM WILL BECOME DISCOLORED DUE TO OXIDATION WHICH IS A NATURAL PHENOMENON SHOULD BE EXPECTED.

4. ANODIZED ALUMINUM HANDRAIL IS 1 1/4" PIPE SIZE.

5. ALUMINUM TO CONFORM TO 2010 ALUMINUM DESIGN MANUAL.

SPECIAL INSPECTION/INSPECTOR REQUIREMENTS REQUIREMENTS FOR SPECIAL INSPECTION:

1. PROJECT INSPECTOR: IN ACCORDANCE WITH TITLE 24, PART I, SECTIONS 4–333 AND 4–342.

2. CERTIFIED SPECIAL INSPECTOR: EMPLOYED BY THE DISTRICT AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND DSA.

3. REPORTS: PREPARED BY THE SPECIAL INSPECTOR AND SIGNED BY A CIVIL ENGINEER. SUBMITTED TO THE DSA, THE ARCHITECT, AND ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ARCHITECT, ENGINEER AND THE DSA (CBC 1704A.2.4).

4. THE SPECIAL INSPECTION IS TO BE CONTINUOUS DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.

SUMMARY OF STRUCTURAL CONTINUOUS AND PERIODIC SPECIAL INSPECTION:

1. RESPONSIBILITY: IT IS THE RESPONSIBILITY OF THE PROJECT INSPECTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.

2. SPECIAL INSPECTIONS:
   A) CONCRETE (CBC 1705A.3): DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.

   B) BOLTS INSTALLED IN CONCRETE (CBC 1705A.3): PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.

   C) REINFORCING STEEL (CBC 1705A.3): DURING PLACING OF REINFORCING STEEL FOR ALL CONCRETE SPECIFIED TO HAVE SPECIAL INSPECTION.

   D) STRUCTURAL WELDING AND FABRICATION (CBC 1705A.2):

   i) DURING ALL SHOP AND FIELD WELDING IN ACCORDANCE WITH AWS D1.1
   ii) DURING SHOP FABRICATION.
   iii) WELDING INSPECTORS ARE TO BE AWS QC–1 CERTIFIED.
   iv) INSPECTION SHALL BE PER AWS D1.1, D1.3 OR D1.4 AND INCLUDE VERIFICATION THAT THE WPS IS BEING FOLLOWED.
   v) ALL STEEL AND WELDING MATERIALS SHALL BE IDENTIFIED AS REQUIRED BY THEIR ASTM OR AWS STANDARD.
   vi) ALL SUBMITTED TO THE OWNER BY THEIR WELDING INSPECTOR, NOT THE BLEACHER FABRICATOR.

   E) CONCRETE ANCHORS: FOR ALL THREADED ROD AND REINFORCING STEEL ANCHORED WITH EPOXY ADHESIVE IN CONCRETE; FOR ALL EXPANSION ANCHORS IN CONCRETE. INSPECTION / TESTING SHALL BE IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S EVALUATION REPORT AND SHALL INCLUDE AS A MINIMUM VERIFICATION OF HOLE DEPTH AND DIAMETER, CLEAN OUT, ALL MATERIALS, INSTALLATION TORQUE AND PROOF LOAD TESTS.

CONCRETE WEDGE ANCHORS:

1. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE ANCHOR.

2. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT & INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.

3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).

4. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

   HYDRAULIC RAM METHOD:
   THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

   TORQUE WRENCH METHOD:
   WEDGE TYPE:
   THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

   ONE–HALF (1/2) TURN OF THE NUT:
   ONE–QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.

6. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.

7. TESTING VALUES:

HILTI KB TZ ICC–ESR–1917 HARD ROCK TEST VALUES CONCRETE			
ANCHOR DIA. (IN.)	MINIMUM EMBEDMENT	TENSION LOAD (LBS.)	TORQUE (FT.–LBS.)
3/8	2"	2,560	25
1/2	3 1/4"	5,610	40
5/8	4"	9,300	60
3/4	4 3/4"	10,860	110

CONCRETE – EPOXY ANCHORED THREADED RODS:

1. MATERIALS: (ICC ESR 3187)
   HILTI HIT–HY200 EPOXY ADHESIVE
   CONCRETE (MIN).......................... F'c = 3,000 PSI STONE AGGREGATE
   THREADED RODS......................... ASTM A–153 TYPICAL
   NUTS.. ASTM A–563 HEX, GRADE A
2. INSTALLATION:

A) CARBIDE–TIPPED DRILL BITS ANSI B212.15–1994.

B) HOLES CLEANED OF DUST AND DEBRIS WITH A NYLON BRUSH AND A JET OF COMPRESSED AIR.

C) INSTALLATION AND ALLOWABLE LOADING:

HILTI HIT–HY200 HARD ROCK TEST VALUES CONCRETE							
ROD DIAM. (IN.)	BIT DIAM. (IN.)	MIN. EMBED. (IN.)	ALLOW. TENSION (LBS.)	LOAD SHEAR (LBS.)	MIN EDGE DIST. (IN.)	TIGHT. TORQUE (FT. LBS.)	TENSION TEST LOAD (LBS.)
3/8	7/16	3–3/8	1,370	1,320	5–1/4	18	2,700
1/2	9/16	4–1/2	2,400	2,375	6–3/8	30	4,800
5/8	3/4	5–5/8	3,595	3,375	7–1/2	75	7,200
3/4	7/8	6–3/4	5,025	4,600	10–1/8	150	10,050
7/8	1	7–7/8	5,340	5,330	11–5/8	175	10,070
1	1–1/8	9	6,440	6,140	13–1/2	235	13,000
1–1/4	1–3/8	11–1/4	8,645	8,875	14–1/2	400	17,300

3. CAPACITY LOADS ARE STRENGTH DESIGN LOADS.

4. DO NOT INSTALL IN CONCRETE THAT IS LESS THAN 7 DAYS OLD.

5. MINIMUM MEMBER THICKNESS TO RECEIVE ROD SHALL BE NO LESS THAN 1.5 TIMES THE ANCHOR EMBEDMENT DEPTH.

6. ANCHORS SHALL BE INSTALLED IN HAMMER DRILLED HOLES

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	NONE
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

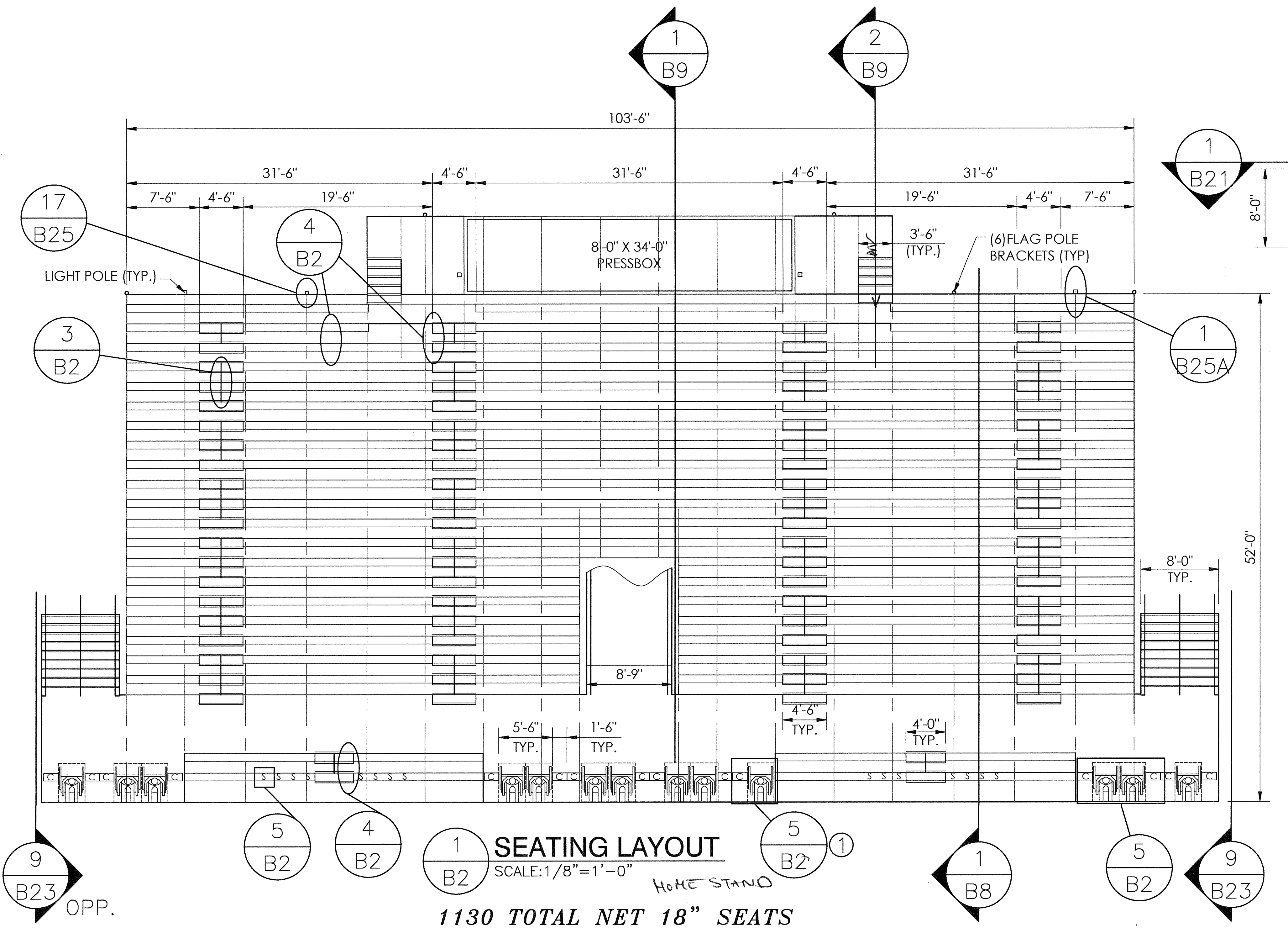
TYPE
GENERAL NOTES

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

DATE 3/23/15
DRAWN AA
CHECKED DMc
JOB NUMBER 14202
SHEET B-1 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)

A# 03-117117
AC N.N. FLS EB SS
DATE FEB 0 3 2017
FILE # 19-H10

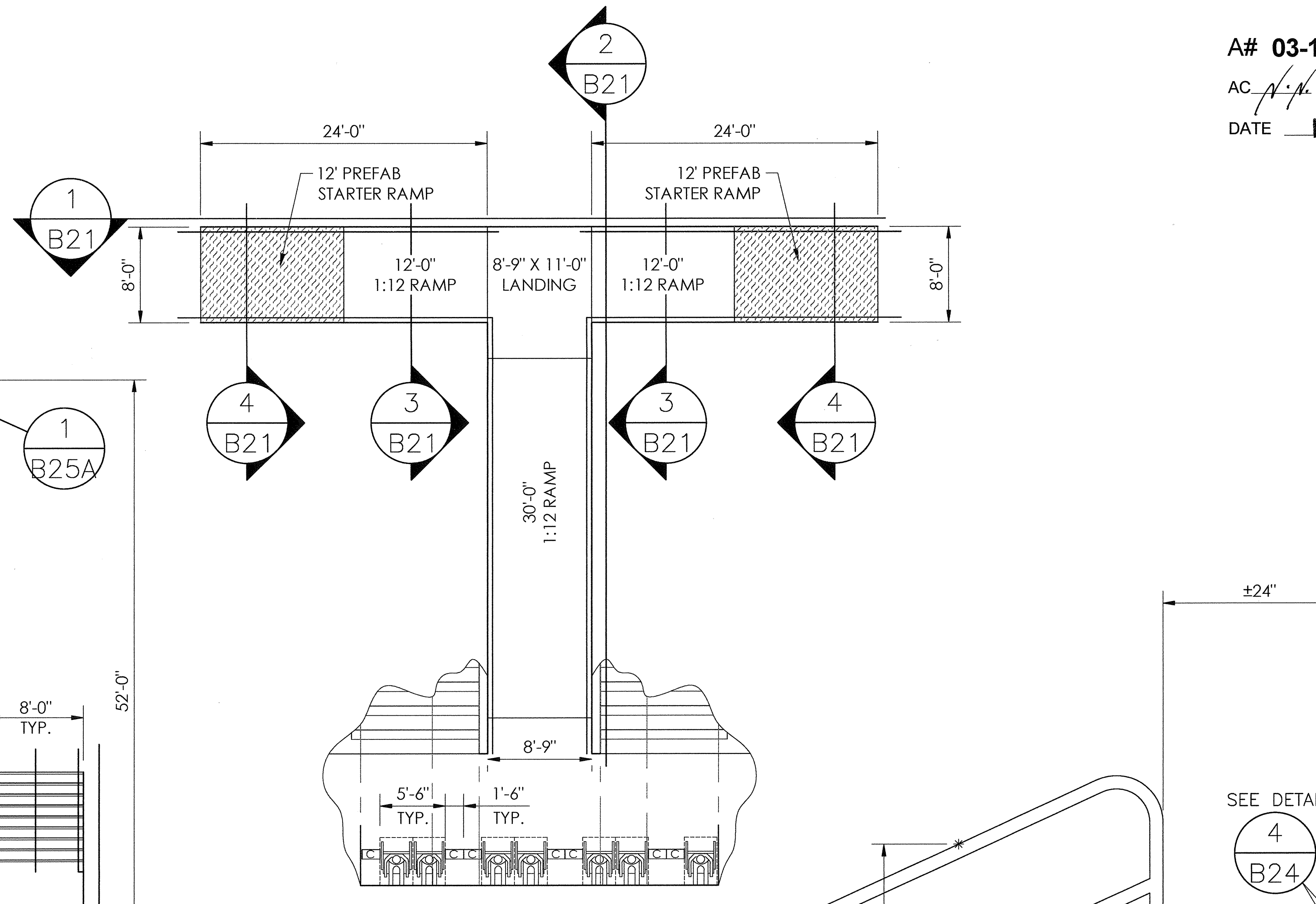


SEATING LAYOUT

SCALE:1/8"=1'-0"

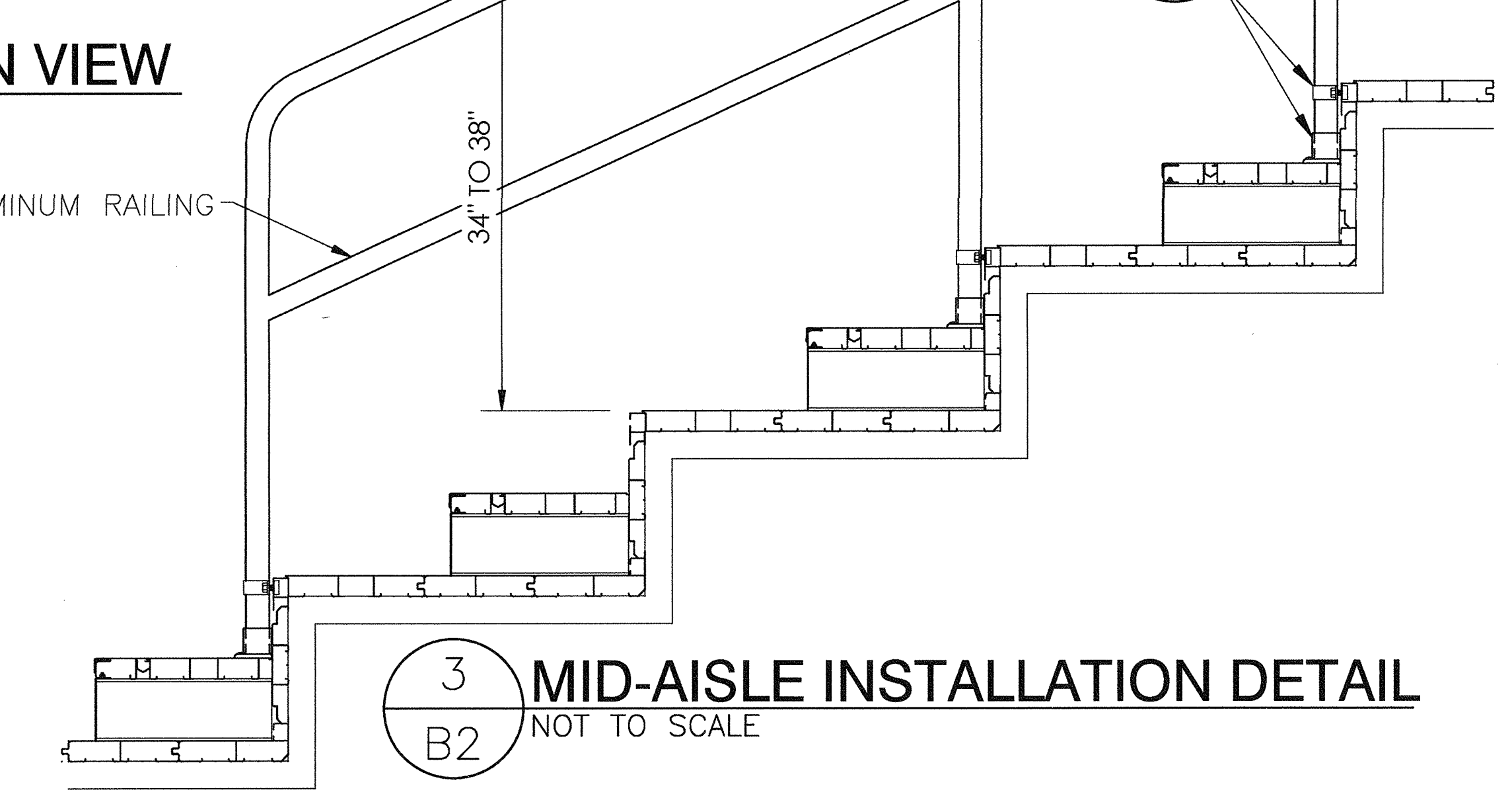
HOME STAND

1130 TOTAL NET 18" SEATS
15 TOTAL NET 18" SEMI-AMBULANT SEATS S
15 TOTAL NET 18" COMPANION SEATS C
13 TOTAL NET 33" WHEELCHAIR SPACES
1173 TOTAL SEATING CAPACITY



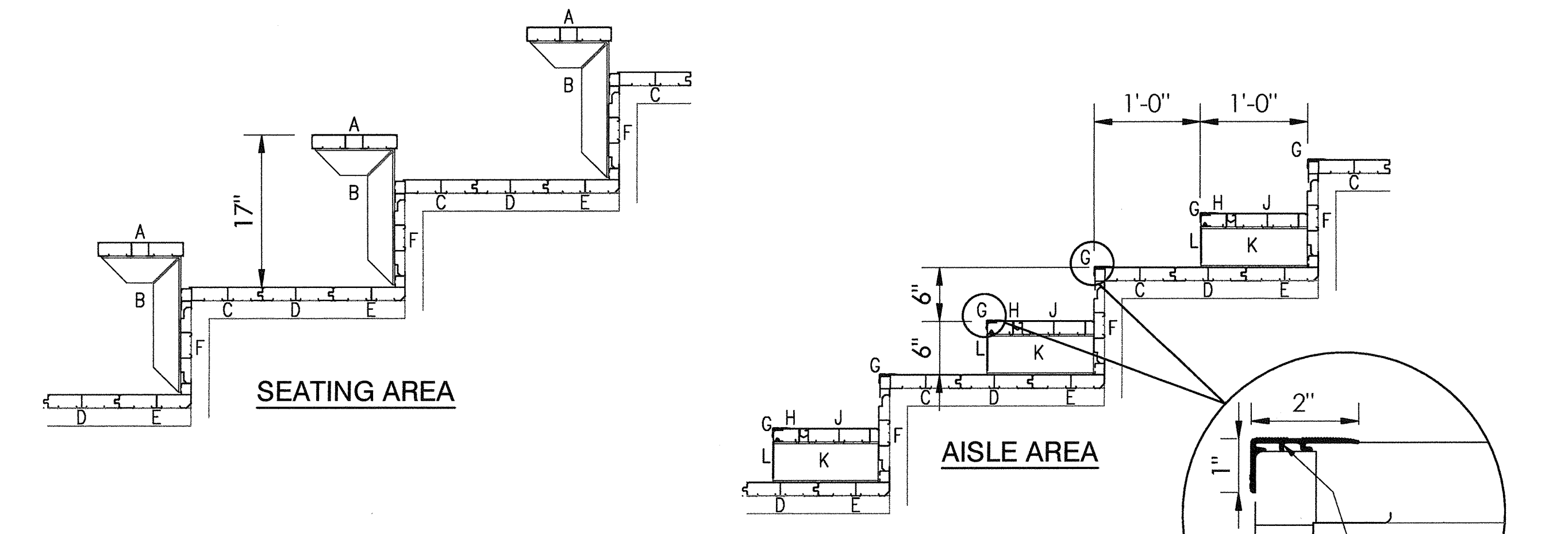
RAMP PLAN VIEW

2 B2 SCALE:1/8"=1'-0"



MID-AISLE INSTALLATION DETAIL

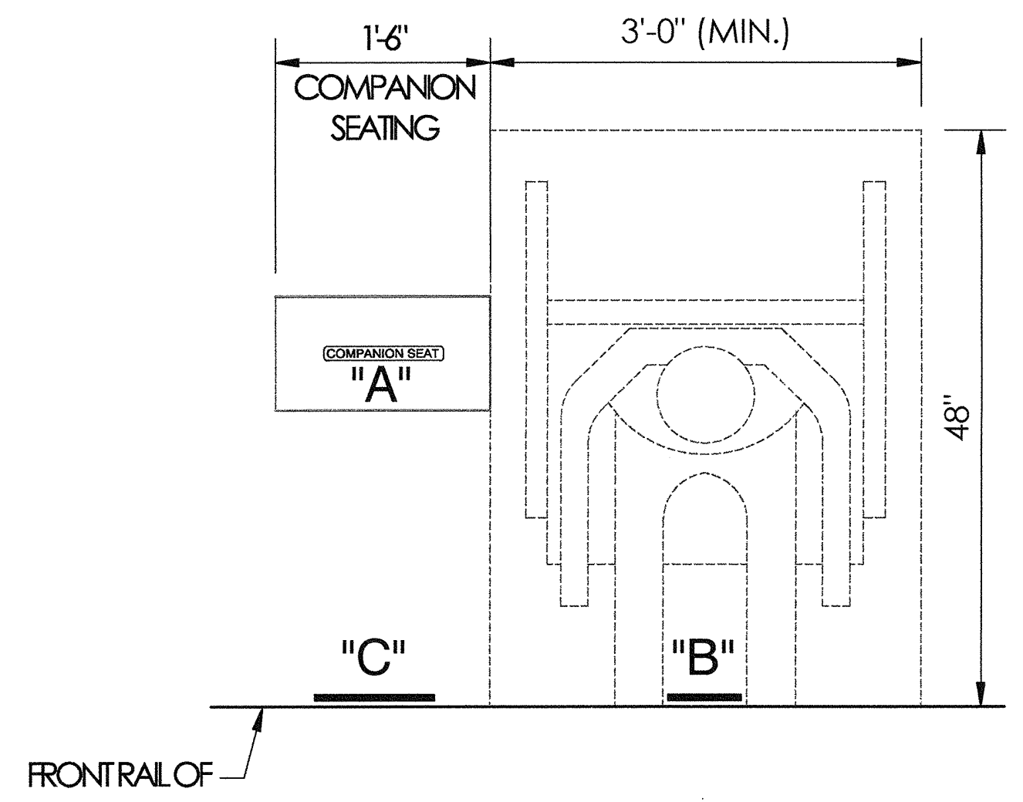
3 B2 NOT TO SCALE



A = 2 X 10 ANODIZED ALUMINUM SEAT
B = MILL ALUMINUM SEAT BRACKET
C = 2 X 8 MILL ALUMINUM TONGUE & GROOVE 2001 TREAD – NOSE
D = 2 X 8 MILL ALUMINUM TONGUE & GROOVE TREAD (#69432)
E = 2 X 8 MILL ALUMINUM TONGUE & GROOVE 2001 TREAD – HEEL
F = 1 X 8 1/2 FLAT ANODIZED ALUMINUM RISER
G = 1 X 2 PAINTED ALUMINUM CONTRASTING NOSING (BLACK)
H = 2 X 4 MILL ALUM. INTERLOCK HALFSTEP – NOSE W/RISER
J = 2 X 8 MILL ALUM. INTERLOCK HALFSTEP – DECK
K = 4 1/2" MILL ALUMINUM HALFSTEP BRACKET
L = 4 1/2" ANODIZED ALUMINUM INTERLOCK STEP RISER

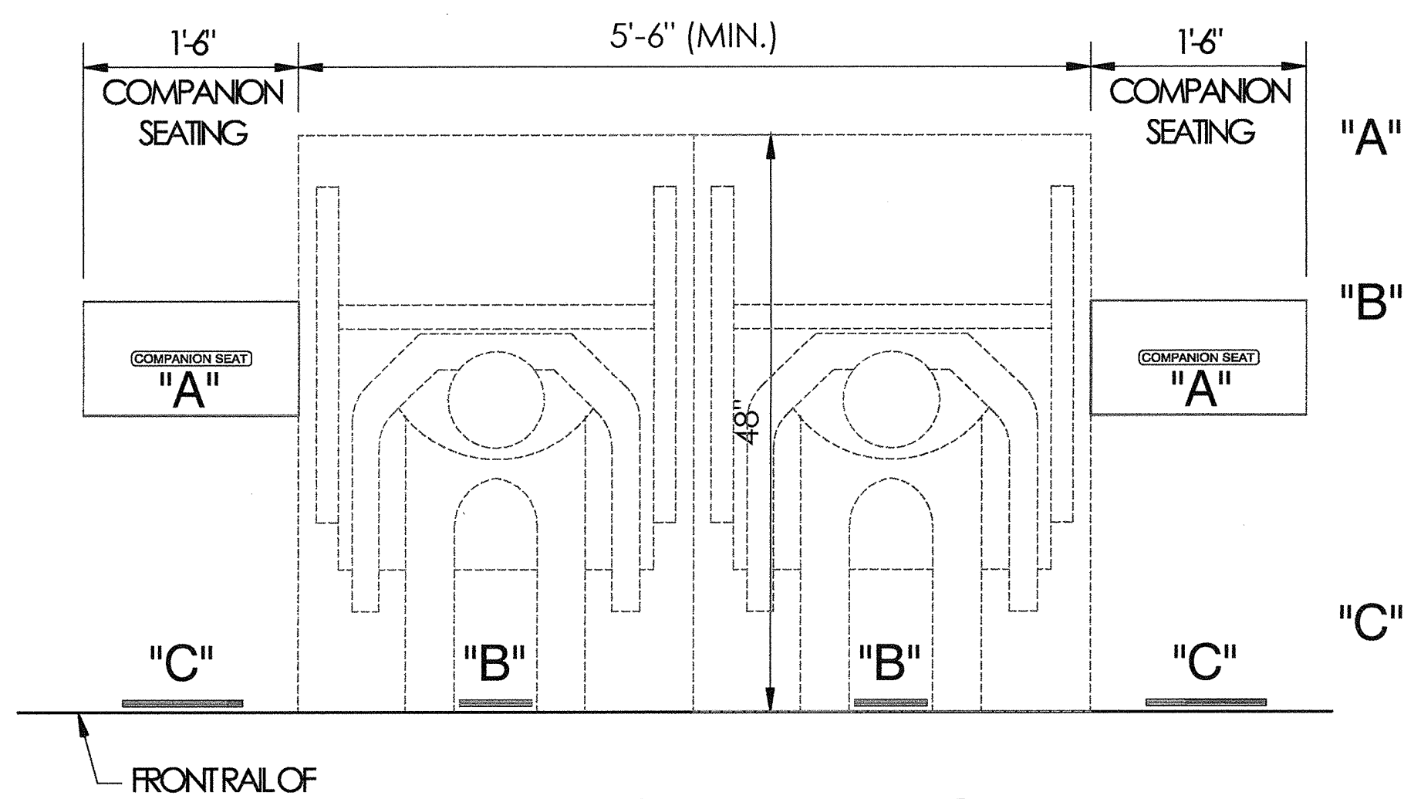
PLANK ARRANGMENT

4 B2 NOT TO SCALE



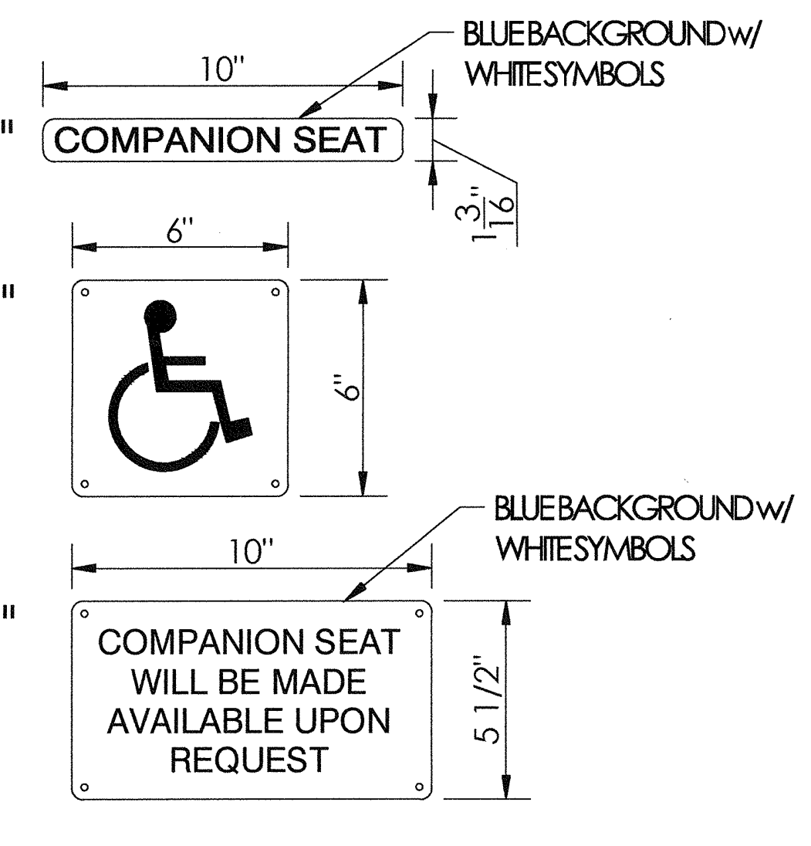
SINGLE W/C AREA

1



DOUBLE W/C AREA

2


10"
BLUE BACKGROUND w/ WHITE SYMBOLS
"A"
COMPANION SEAT
1 3/16"
6"
"B"
6"
10"
BLUE BACKGROUND w/ WHITE SYMBOLS
"C"
COMPANION SEAT WILL BE MADE AVAILABLE UPON REQUEST
5 1/2"

SIGNAGE TYP. @ WHEELCHAIR AREAS
A = COMPANION: 1 3/16" X 10" PLASTIC
B = ACCESSIBLE: 6" X 6" 0.040 ALUM.
C = COMPANION: 5 1/2" X 10" 0.040 ALUM.

SIGN DETAIL

5 B2 NOT TO SCALE

1 10 DETAIL NUMBER
SHEET SHOWN ON

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Established 1946

GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

TYPE
SEATING LAYOUT (HOME)
103'-6" X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

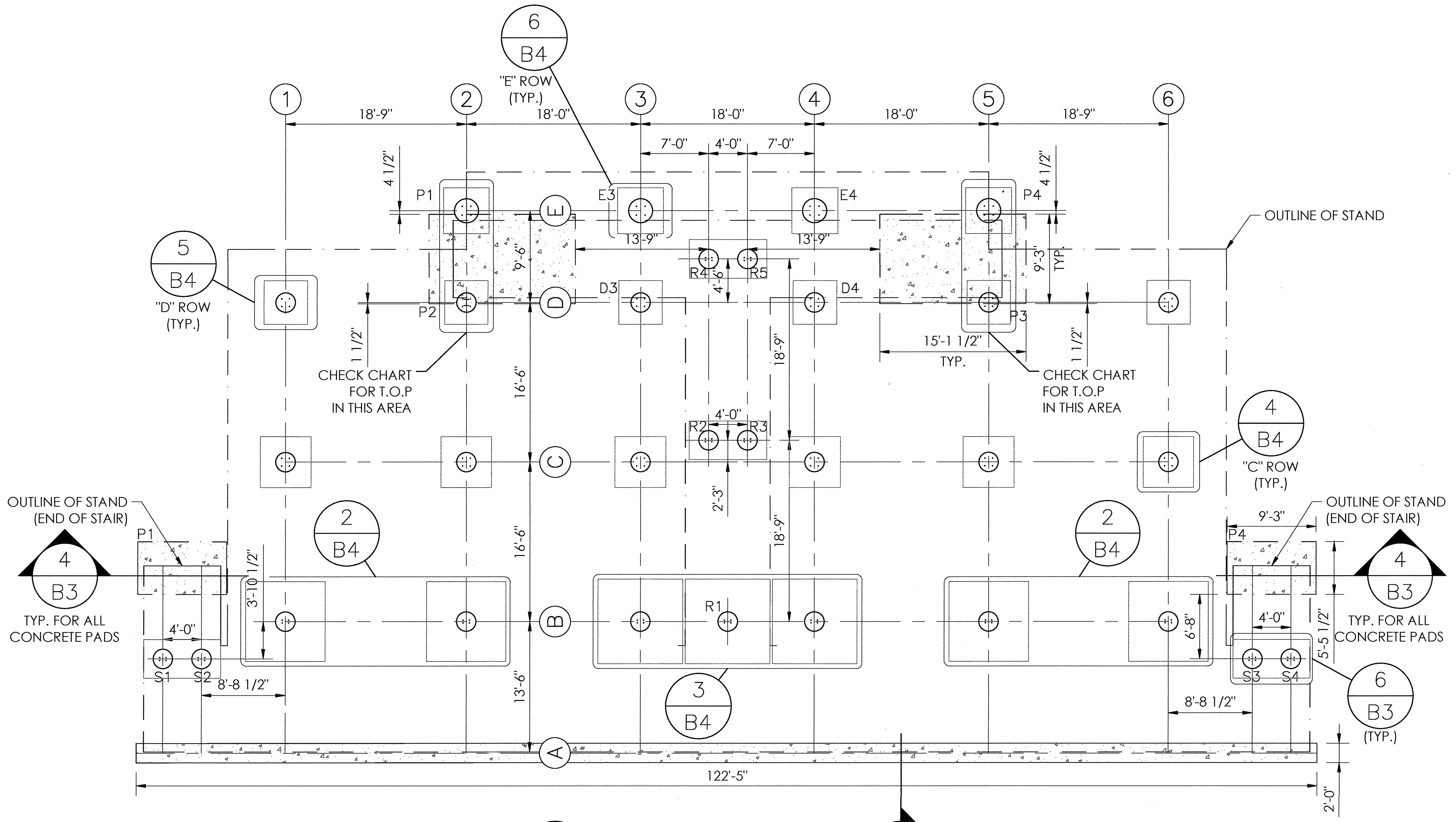
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	ADDED SEATING TO ROWS 1 & 2
1	MG	12/15/15	MODIFIED RAMP / ADDED LIGHT POLES

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

SHEET B-2 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



1 / B3 **FOOTING LAYOUT**
SCALE:1/8"=1'-0"

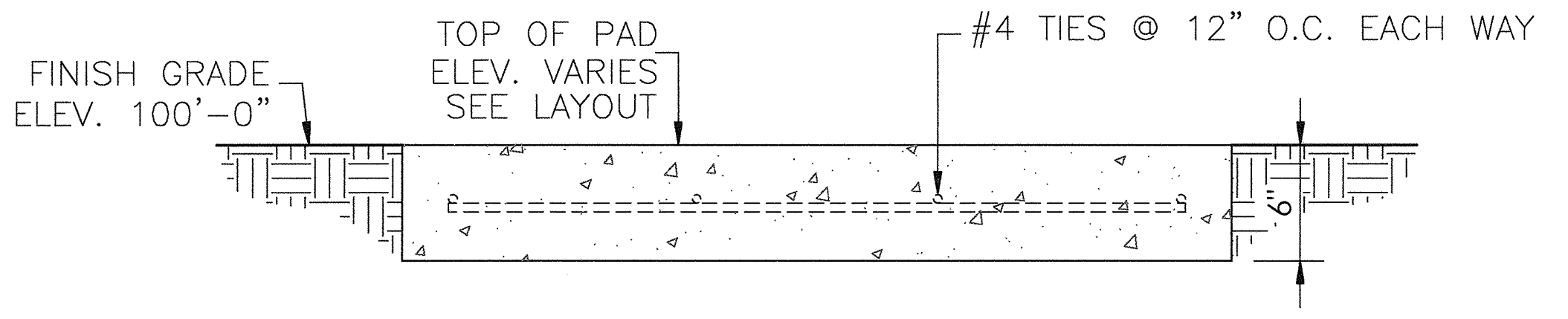
1 / B4

PIER ELEVATION CHART

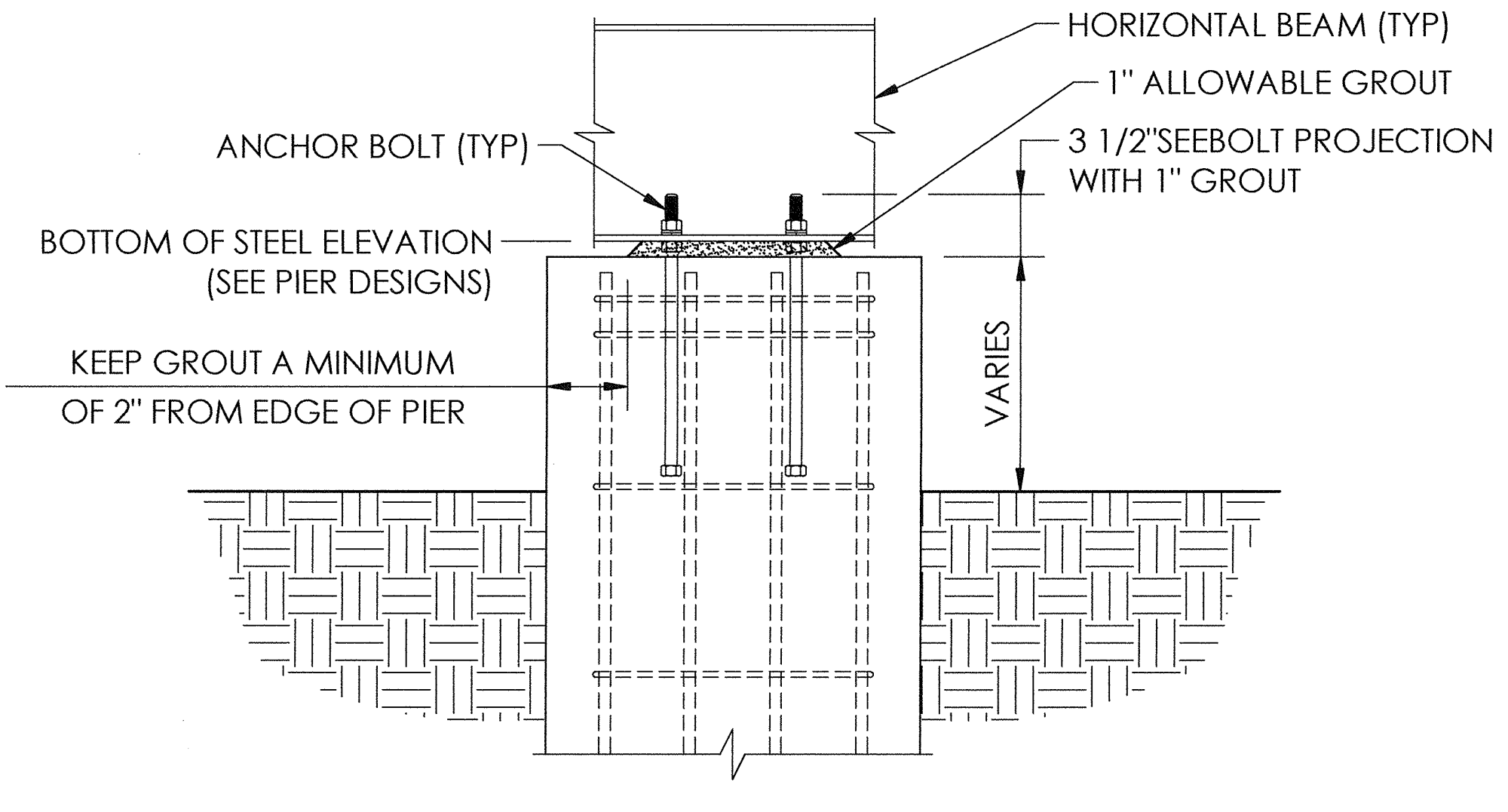
PIER	T.O.P. ELEVATION	B.O.S. ELEVATION
B1-B2	101.9948'	102.0781'
B3,B4,R1	101.9948'	102.0781'
B5-B6	101.9948'	102.0781'
C ROW	100.4167'	100.5'
D1,D3,D4,D6	100.4167'	100.5'
D2 & D5	100'	100.0833'
E2 & E5	100'	100.0833'
E3 & E4	100.4167'	100.5'
R2 & R3	101.2218'	101.3051'
R4 & R5	100.2825'	100.3658'
P1-P4	100'	N/A

T.O.P. = Top Of Pier
B.O.S. = Bottom Of Steel

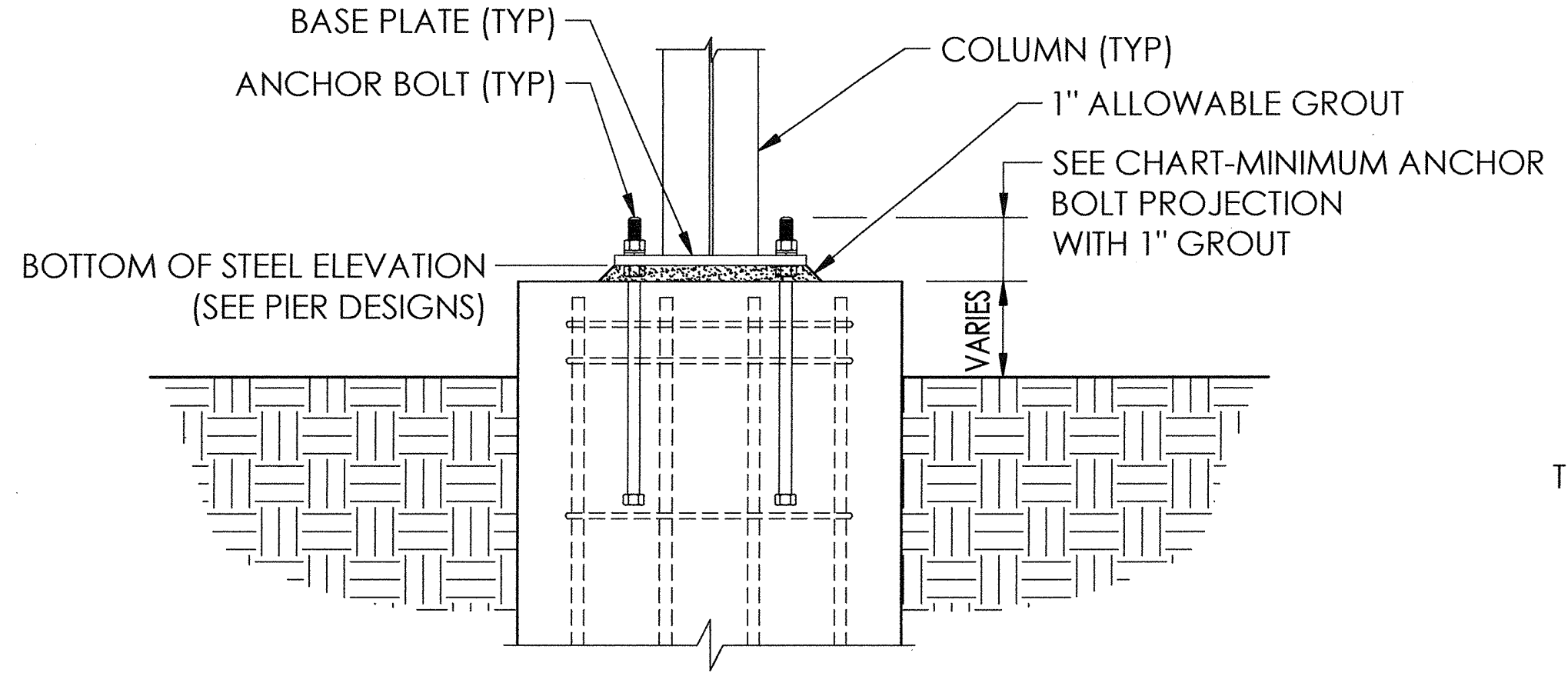
A# 03-117117
AC N.N. FLS
SS
DATE FEB 0 3 2017
FILE # 19-H10


FINISH GRADE ELEV. 100'-0"
TOP OF PAD ELEV. VARIES SEE LAYOUT
#4 TIES @ 12" O.C. EACH WAY
6"

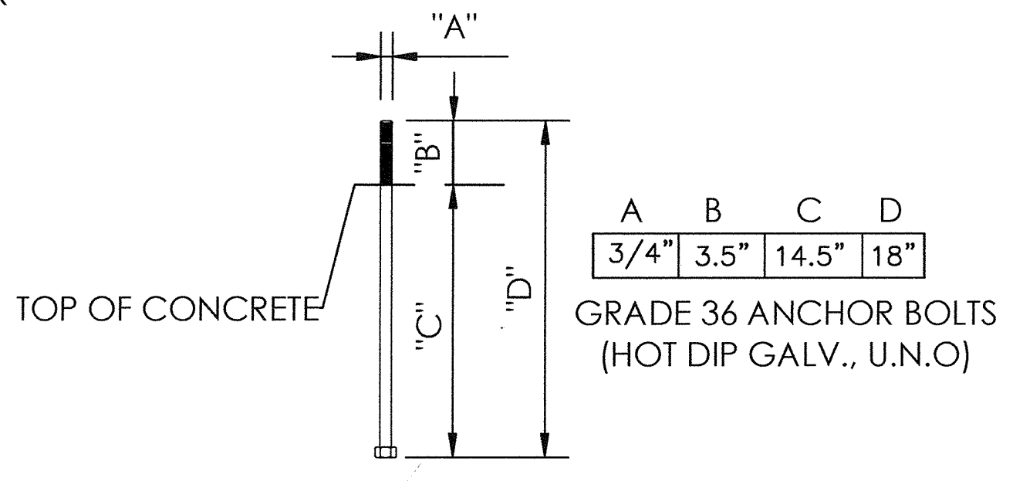
4 / B3 **CONCRETE SLAB DETAIL**
NOT TO SCALE


HORIZONTAL BEAM (TYP)
1" ALLOWABLE GROUT
3 1/2"SEEBOLT PROJECTION WITH 1" GROUT
ANCHOR BOLT (TYP)
BOTTOM OF STEEL ELEVATION (SEE PIER DESIGNS)
KEEP GROUT A MINIMUM OF 2" FROM EDGE OF PIER
VARIES

2 / B3 **"B" ROW PIER TOP DETAIL**
NOT TO SCALE


BASE PLATE (TYP)
ANCHOR BOLT (TYP)
COLUMN (TYP)
1" ALLOWABLE GROUT
SEE CHART-MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
BOTTOM OF STEEL ELEVATION (SEE PIER DESIGNS)
VARIES

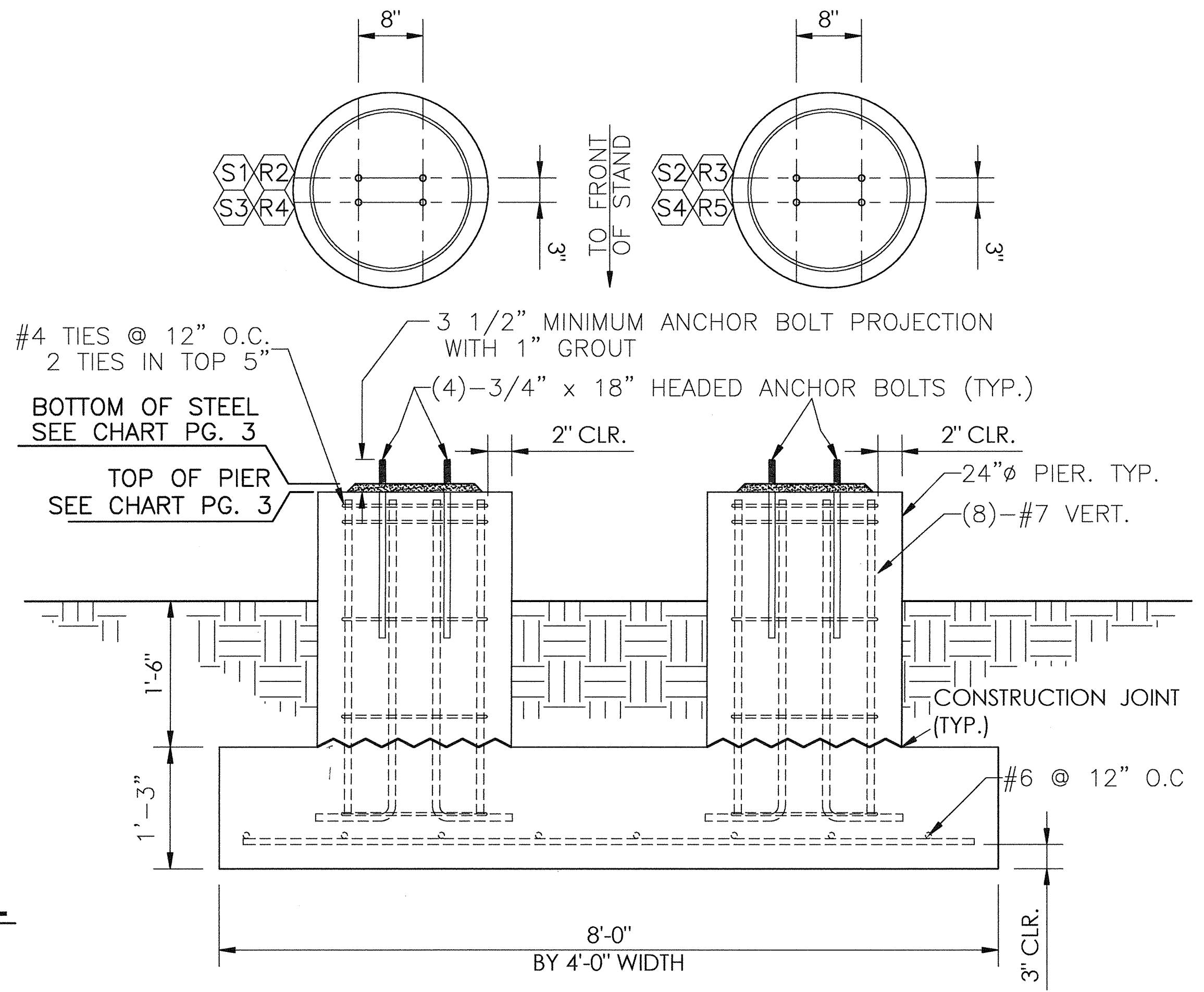
3 / B3 **"C", "D", & "E" ROW PIER TOP DETAIL**
NOT TO SCALE



A	B	C	D
3/4"	3.5"	14.5"	18"

GRADE 36 ANCHOR BOLTS (HOT DIP GALV., U.N.O)

5 / B3 **ANCHOR BOLT DETAIL**
NOT TO SCALE


8"
8"
S1 R2
S3 R4
S2 R3
S4 R5
TO FRONT OF STAND
3"
3"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS (TYP.)
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
2" CLR.
TOP OF PIER SEE CHART PG. 3
24"ø PIER, TYP.
(8)-#7 VERT.
1'-6"
CONSTRUCTION JOINT (TYP.)
#6 @ 12" O.C
1'-3"
3" CLR.
8'-0" BY 4'-0" WIDTH

6 / 3 **RAMP/STAIR PIER DETAIL**
NOT TO SCALE

1 / 10 — DETAIL NUMBER / SHEET SHOWN ON

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PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE
FOOTING LAYOUT (HOME)
103'-6" X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

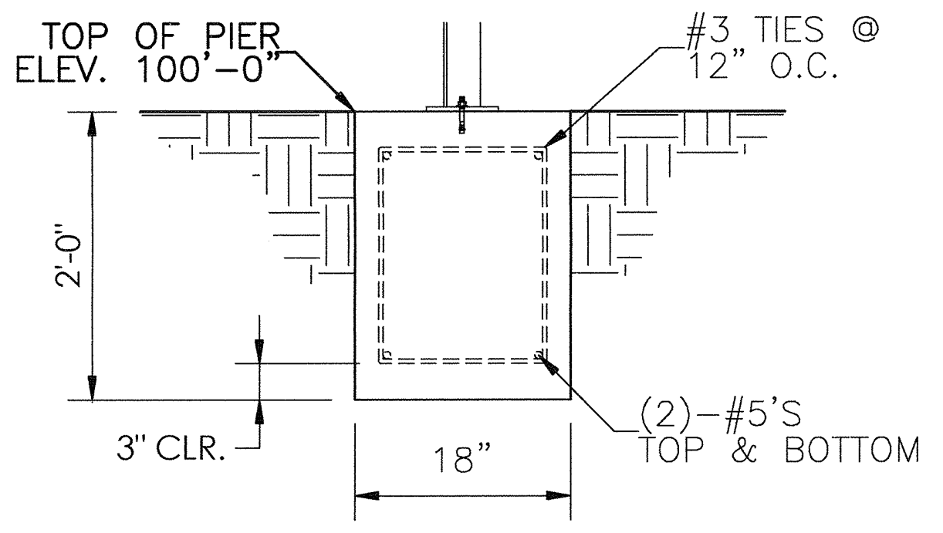
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	MODIFIED RAMP

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

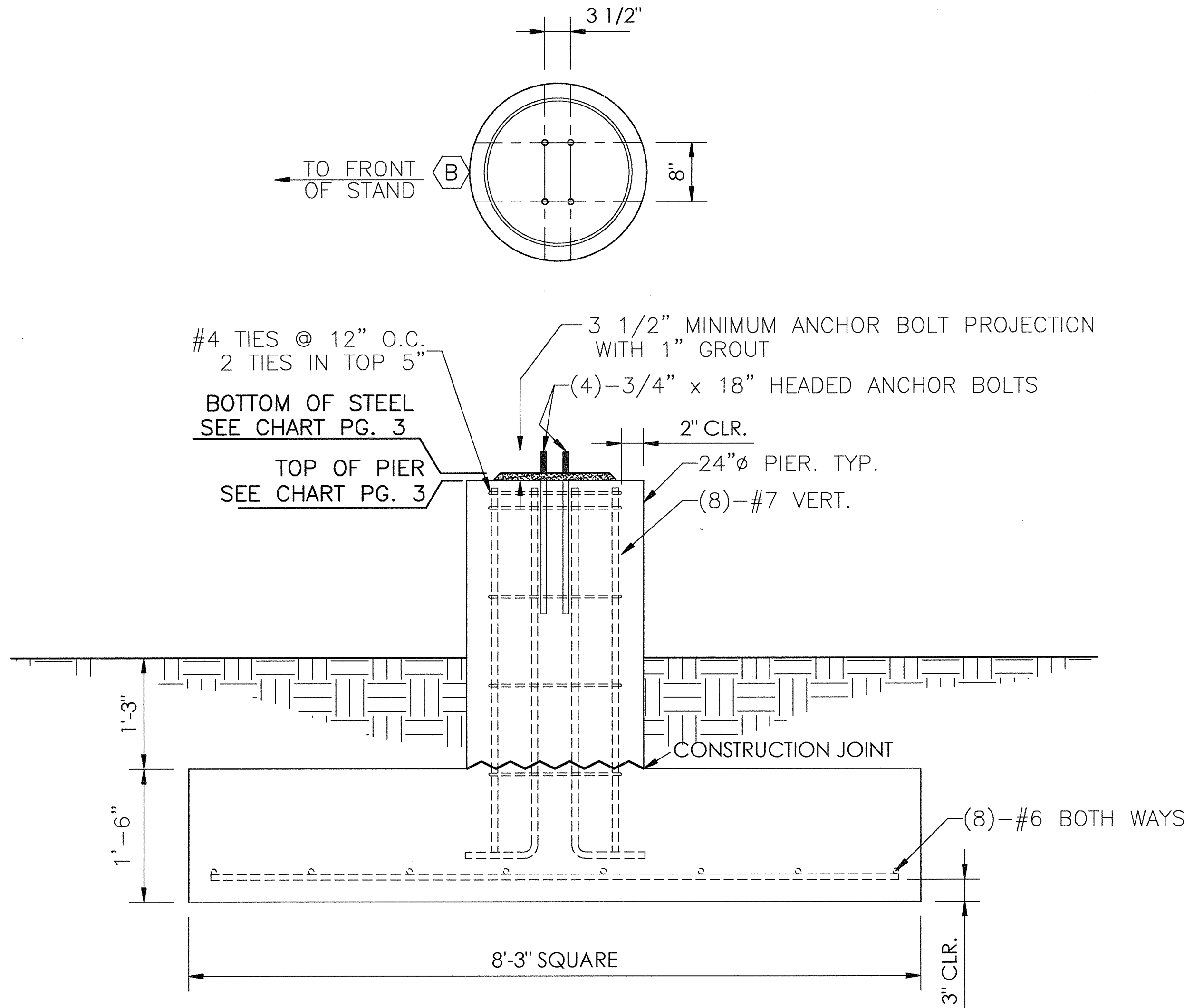
JOB NUMBER
14202

SHEET B-3 OF B-30

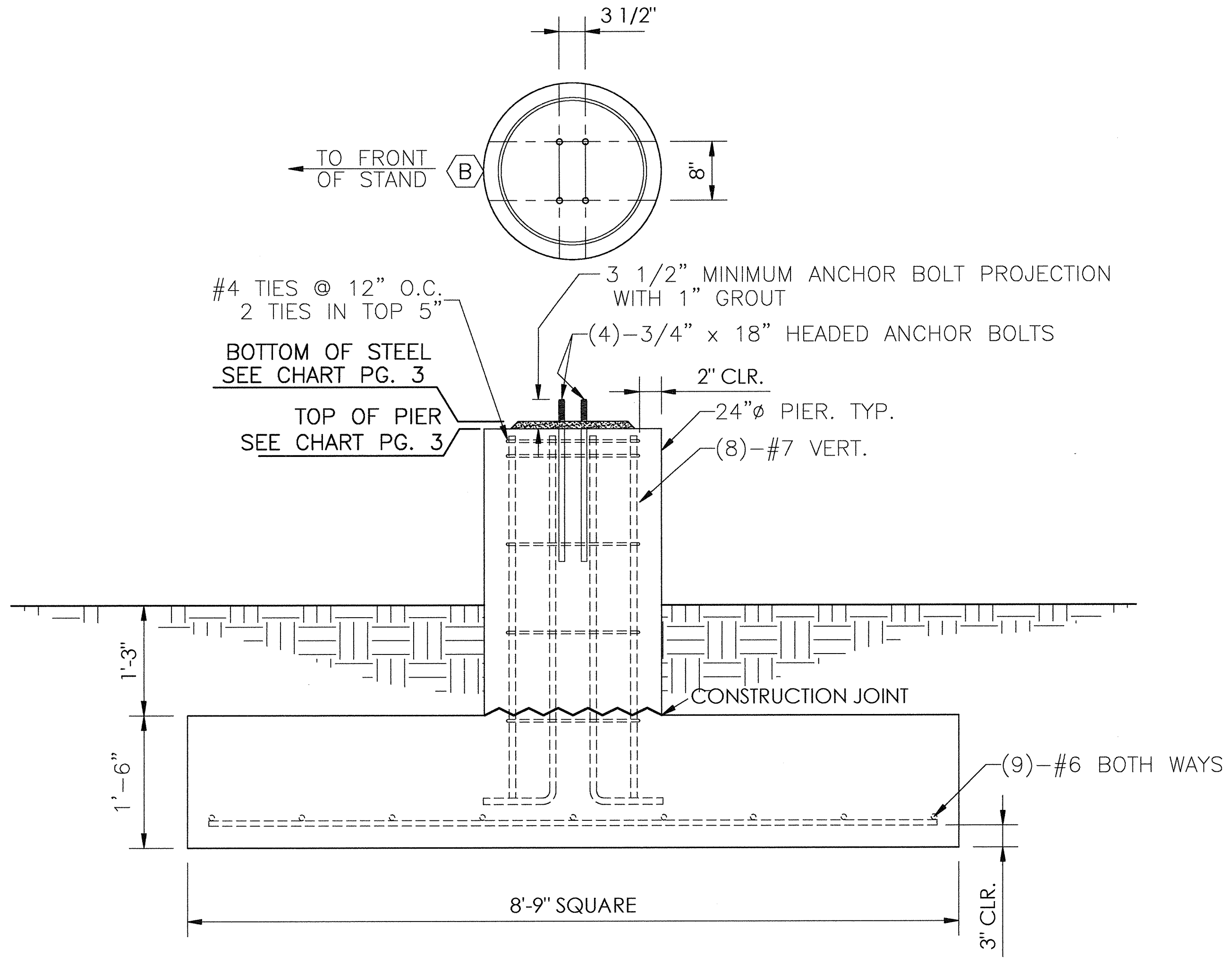
22" X 34" (11x17 = 1/2 indicated scale)



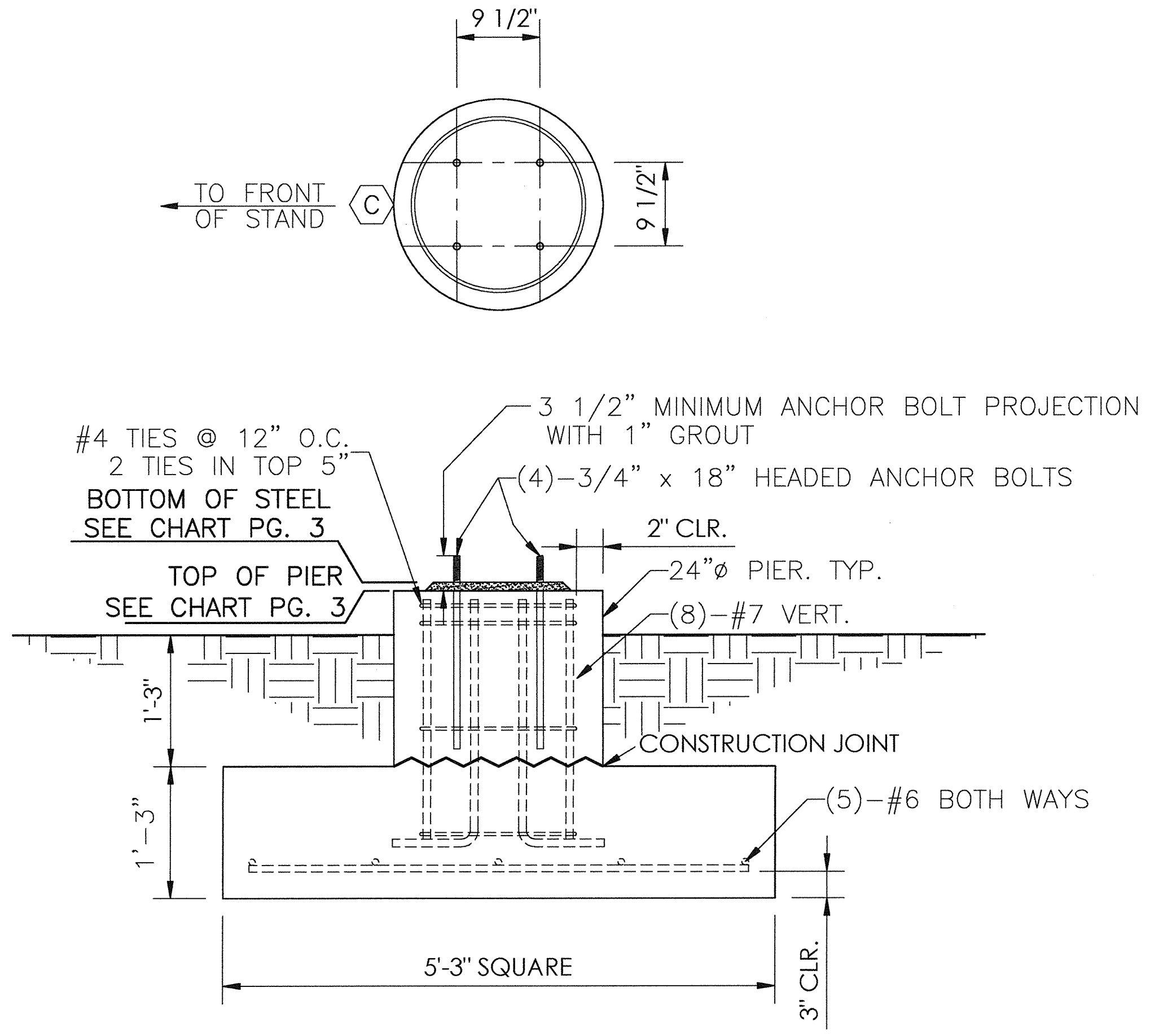
1 / B4 **"A" ROW GRADE BEAM DETAIL**
NOT TO SCALE


3 1/2"
TO FRONT OF STAND
B
8"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
TOP OF PIER SEE CHART PG. 3
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-6"
(8)-#6 BOTH WAYS
8'-3" SQUARE
3" CLR.

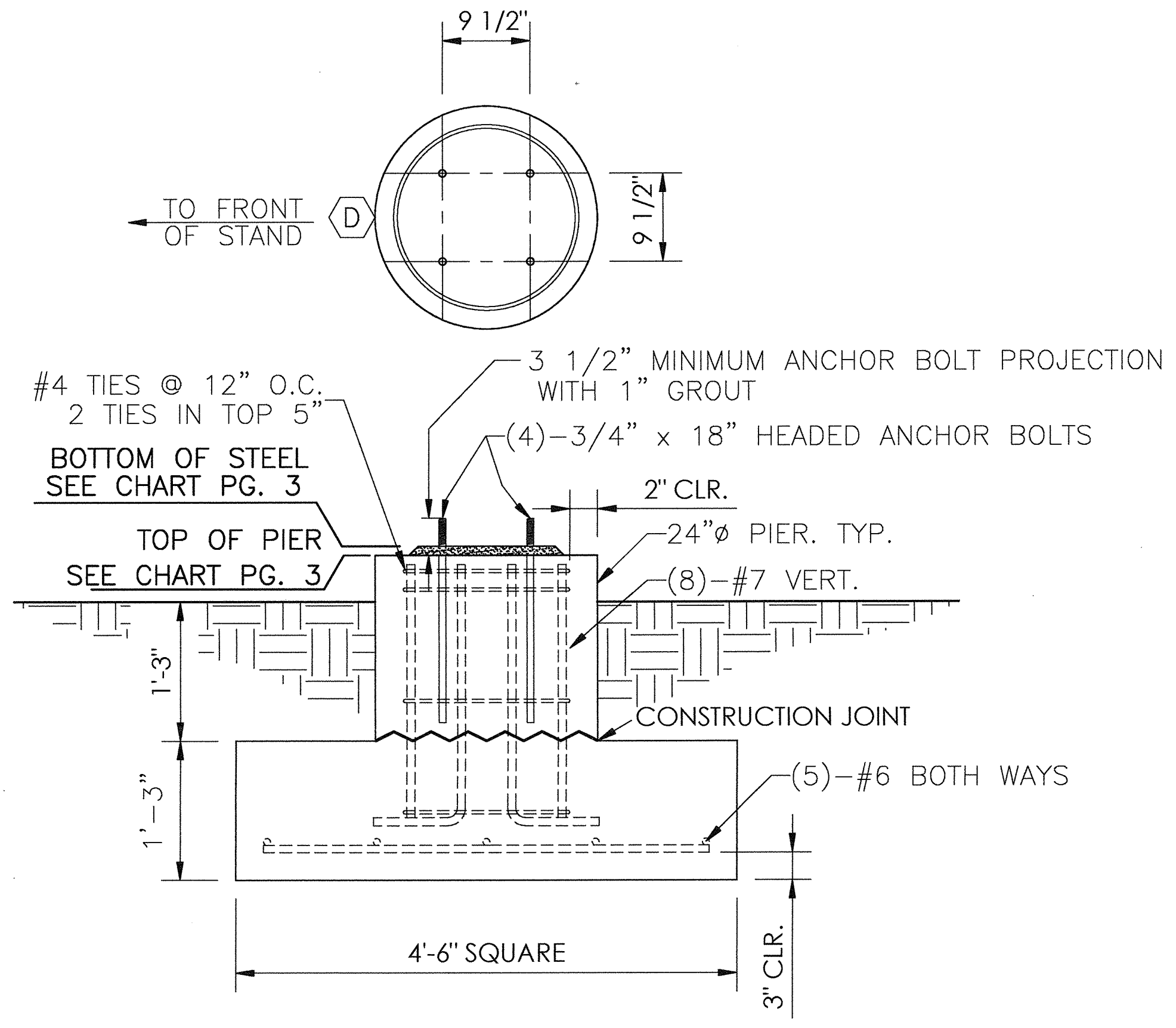
2 / B4 **"B1-B2" & "B5-B6" ROW PIER DETAIL**
NOT TO SCALE


3 1/2"
TO FRONT OF STAND
B
8"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
TOP OF PIER SEE CHART PG. 3
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-6"
(9)-#6 BOTH WAYS
8'-9" SQUARE
3" CLR.

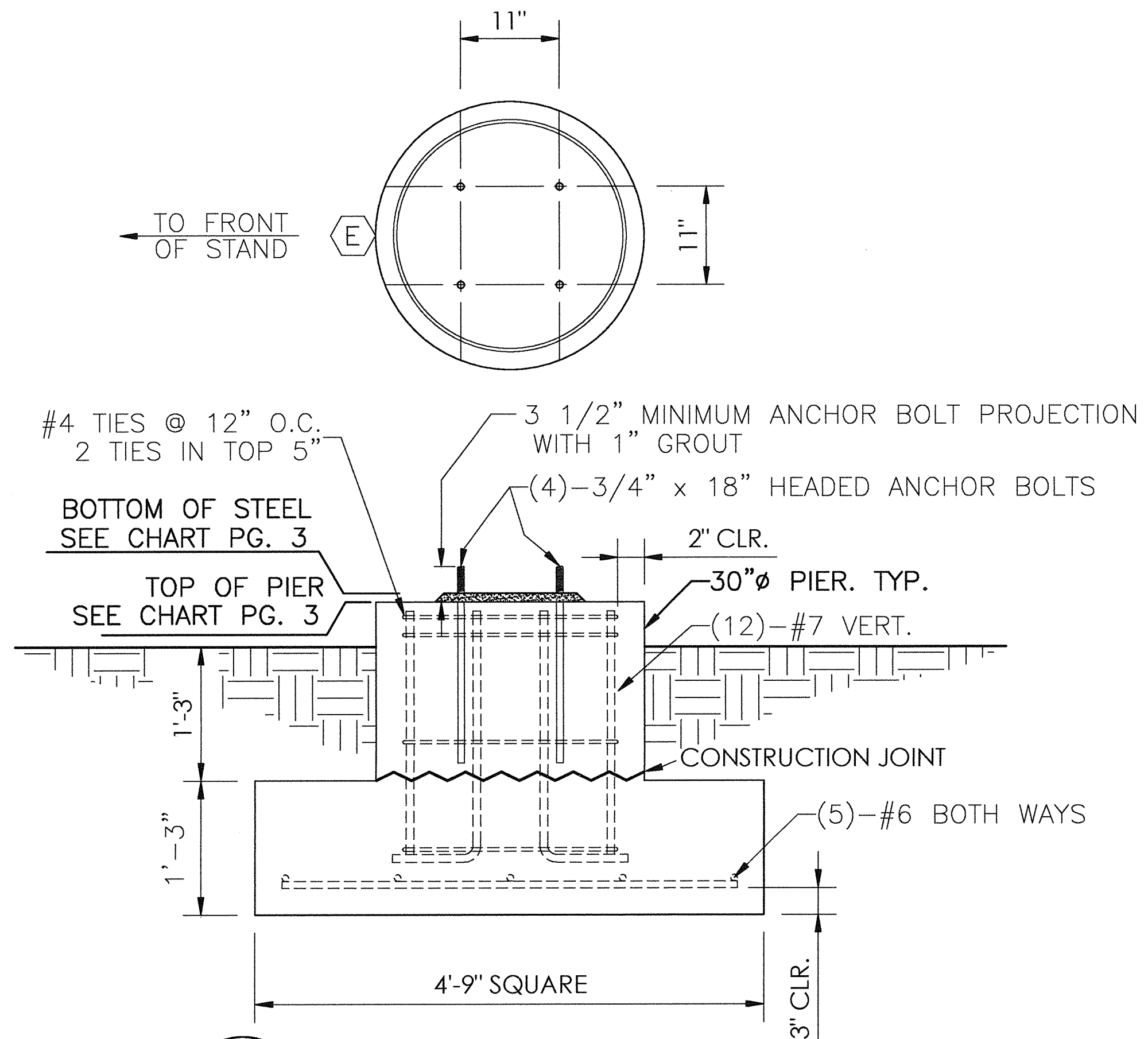
3 / B4 **"B3-B4" ROW & "R1" PIER DETAIL**
NOT TO SCALE


9 1/2"
TO FRONT OF STAND
C
9 1/2"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
TOP OF PIER SEE CHART PG. 3
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
5'-3" SQUARE
3" CLR.

4 / B4 **"C" ROW PIER DETAIL**
NOT TO SCALE


9 1/2"
TO FRONT OF STAND
D
9 1/2"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
TOP OF PIER SEE CHART PG. 3
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
4'-6" SQUARE
3" CLR.

5 / B4 **"D" ROW PIER DETAIL**
NOT TO SCALE


11"
TO FRONT OF STAND
E
11"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 18" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 3
2" CLR.
TOP OF PIER SEE CHART PG. 3
30"ø PIER. TYP.
(12)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
4'-9" SQUARE
3" CLR.

6 / B4 **"E" ROW PIER DETAIL**
NOT TO SCALE

A# 03-117117
AC N.N. FLS EH SS
DATE FEB 0 3 2017
FILE # 19-H10

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1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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BLEACHER COMPANY
GRANDSTANDS ▪BLEACHERS ▪STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

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GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

TYPE PIER DESIGN SHEET (HOME)

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

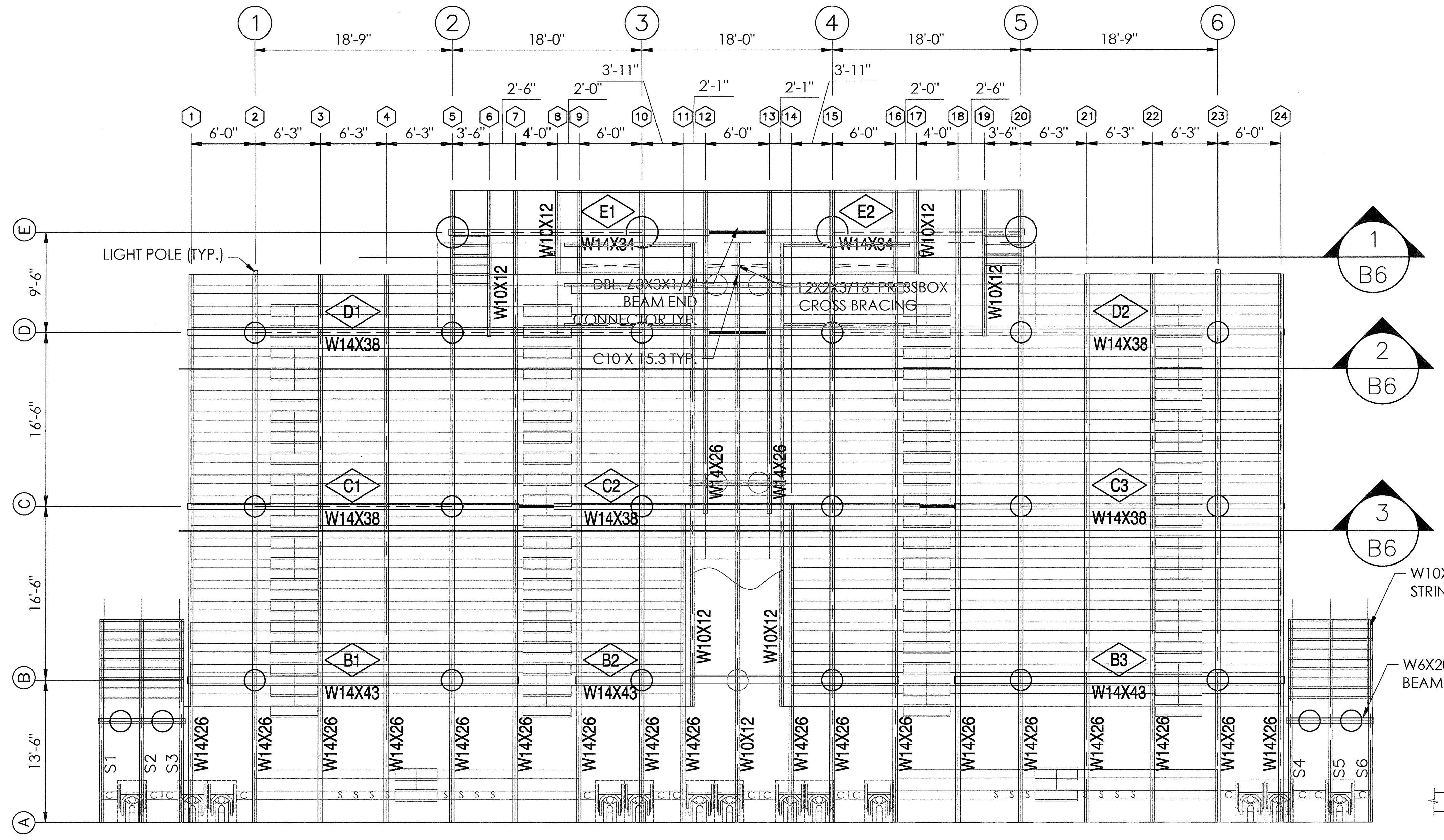
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER 14202

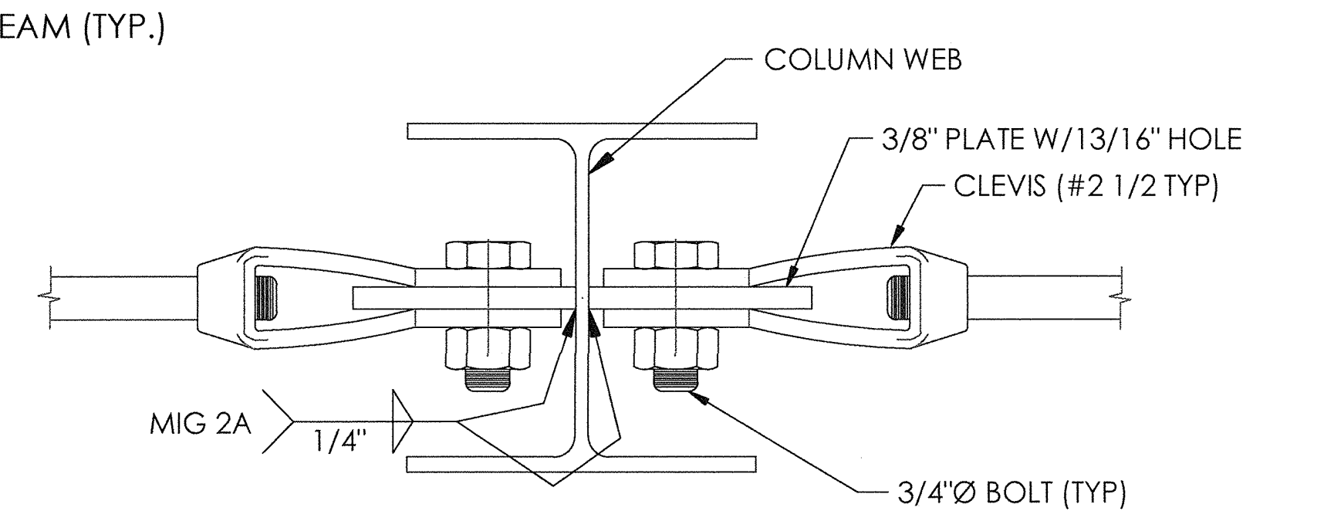
SHEET B-4 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)

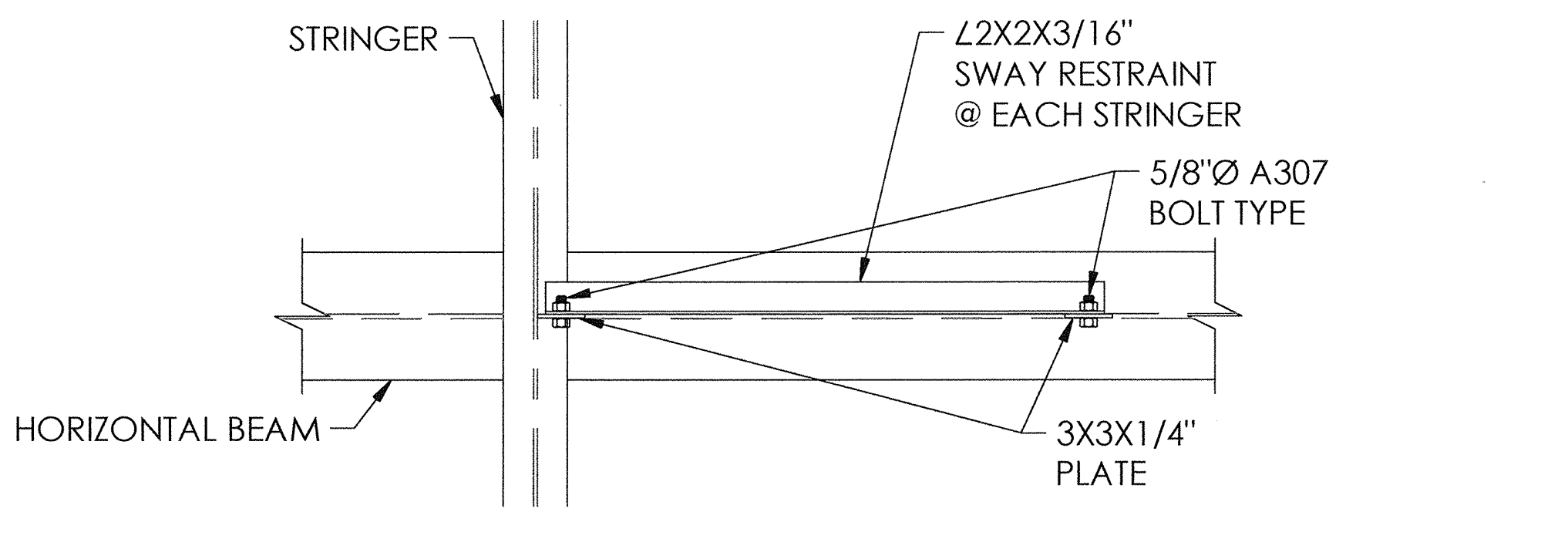


1 UNDERSTRUCTURE LAYOUT
B5 SCALE:1/8"=1'-0"

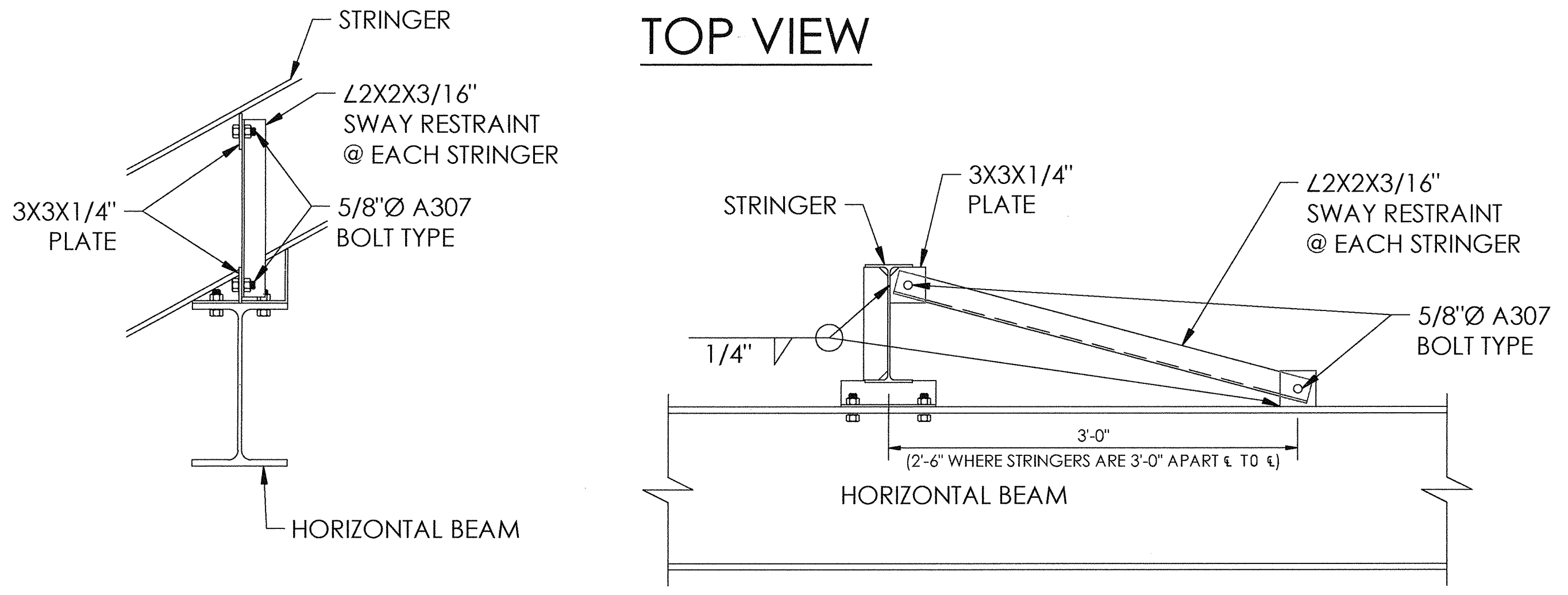
SEE SEATING LAYOUT ON PAGE 2 FOR SECTION CUTS



SECTION "B"-"B"

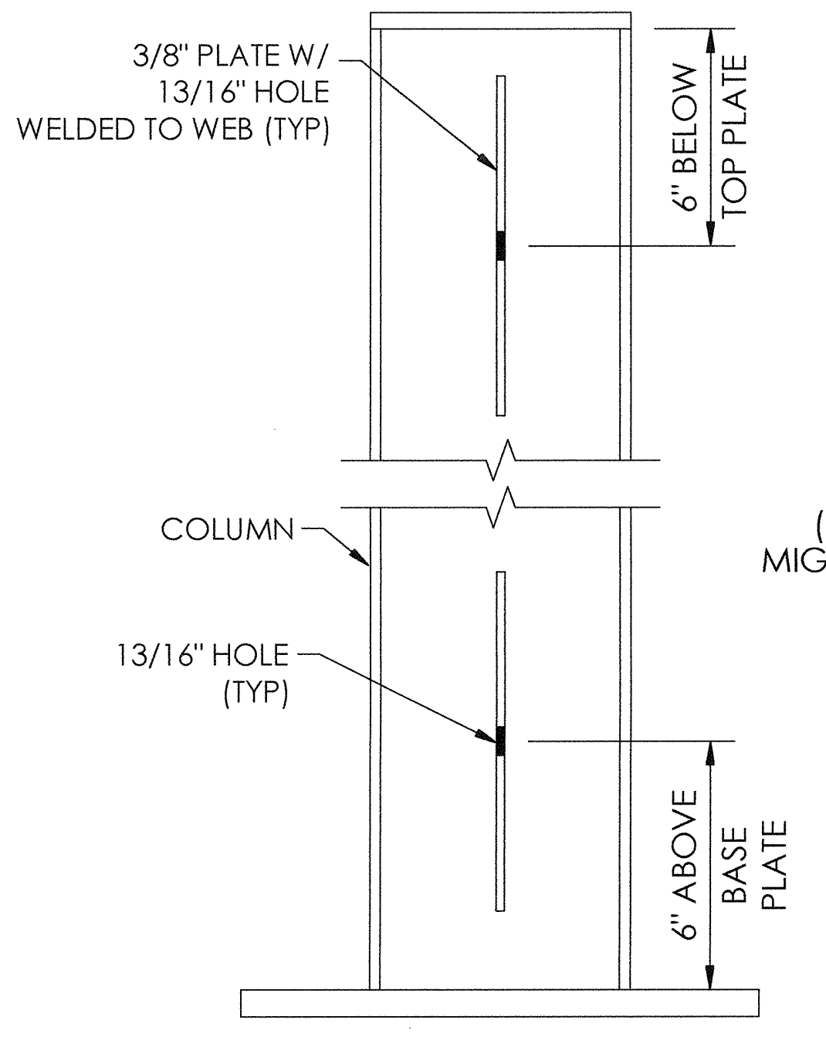


TOP VIEW

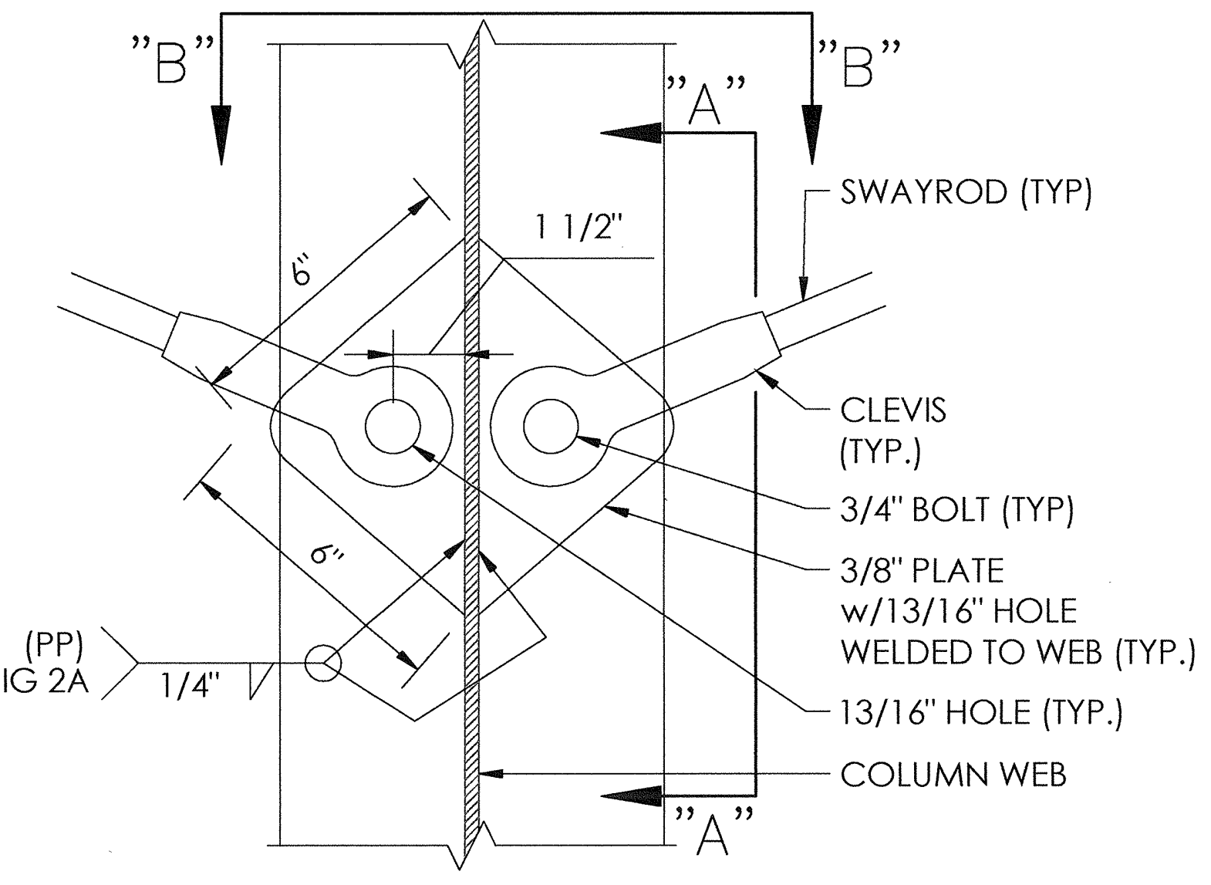

STRINGER
∠2X2X3/16" SWAY RESTRAINT @ EACH STRINGER
3X3X1/4" PLATE
5/8"Ø A307 BOLT TYPE
HORIZONTAL BEAM
STRINGER
3X3X1/4" PLATE
∠2X2X3/16" SWAY RESTRAINT @ EACH STRINGER
5/8"Ø A307 BOLT TYPE
1/4"
3'-0"
(2'-6" WHERE STRINGERS ARE 3'-0" APART ℄ TO ℄)
HORIZONTAL BEAM

SIDE VIEW FRONT VIEW

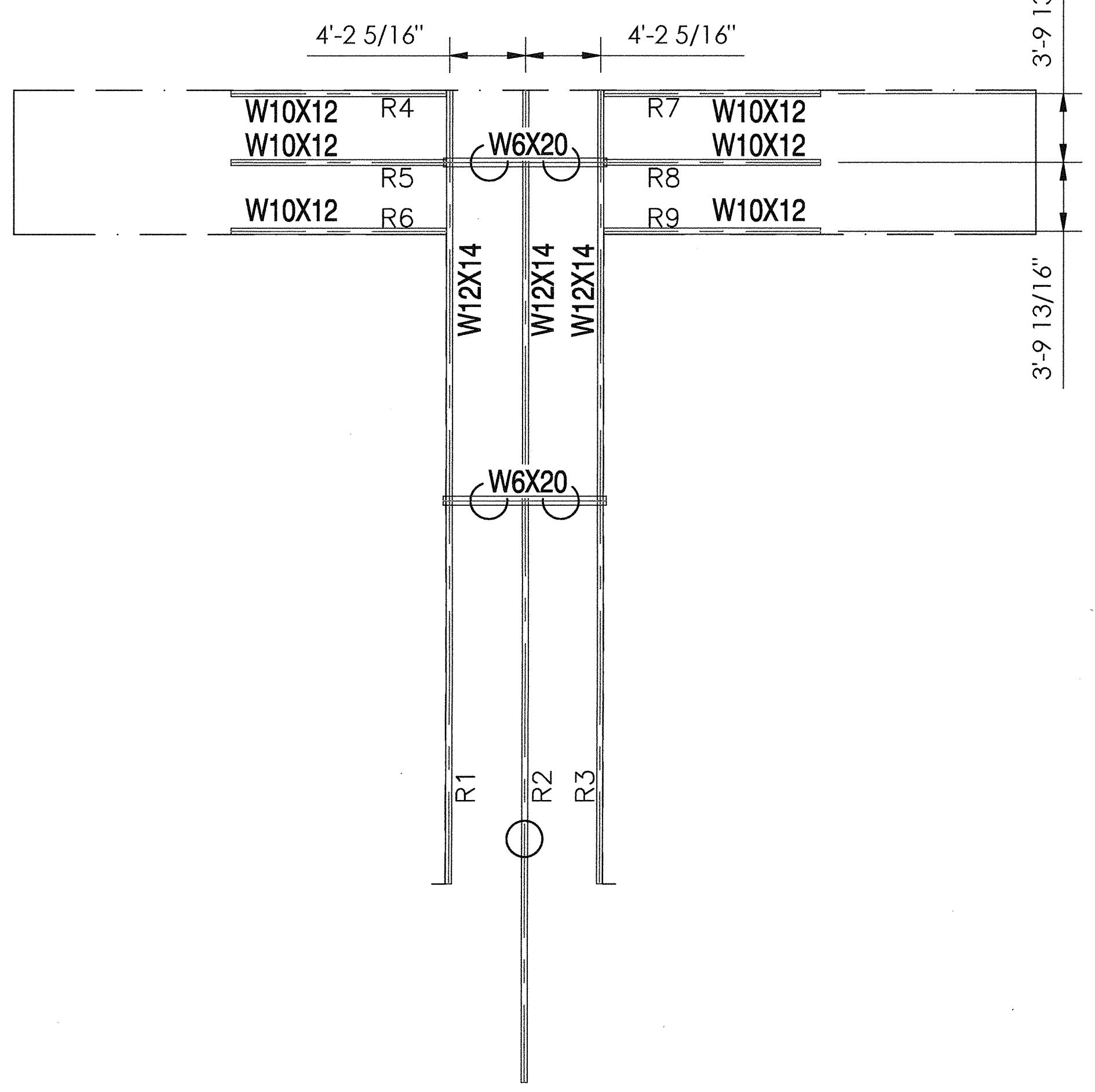
3 SWAY RESTRAINT BRACE
B5 NOT TO SCALE



SECTION "A"-"A"



4 CLEVIS INST. DETAIL
B5 NOT TO SCALE



2 RAMP UNDERSTRUCTURE LAYOUT
B5 SCALE:1/8"=1'-0"

A# 03-117117
AC N.N. FLS EH SS
DATE FEB 0 3 2017
FILE # 19-H10

DETAIL NUMBER
SHEET SHOWN ON

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	ADDED SEATING TO ROWS 1 & 2
1	MG	12/15/15	MODIFIED RAMP / ADDED LIGHT POLES

TYPE
UNDERSTRUCTURE LAYOUT (HOME)
103'-6" X 24" TREAD \ 22 ROWS

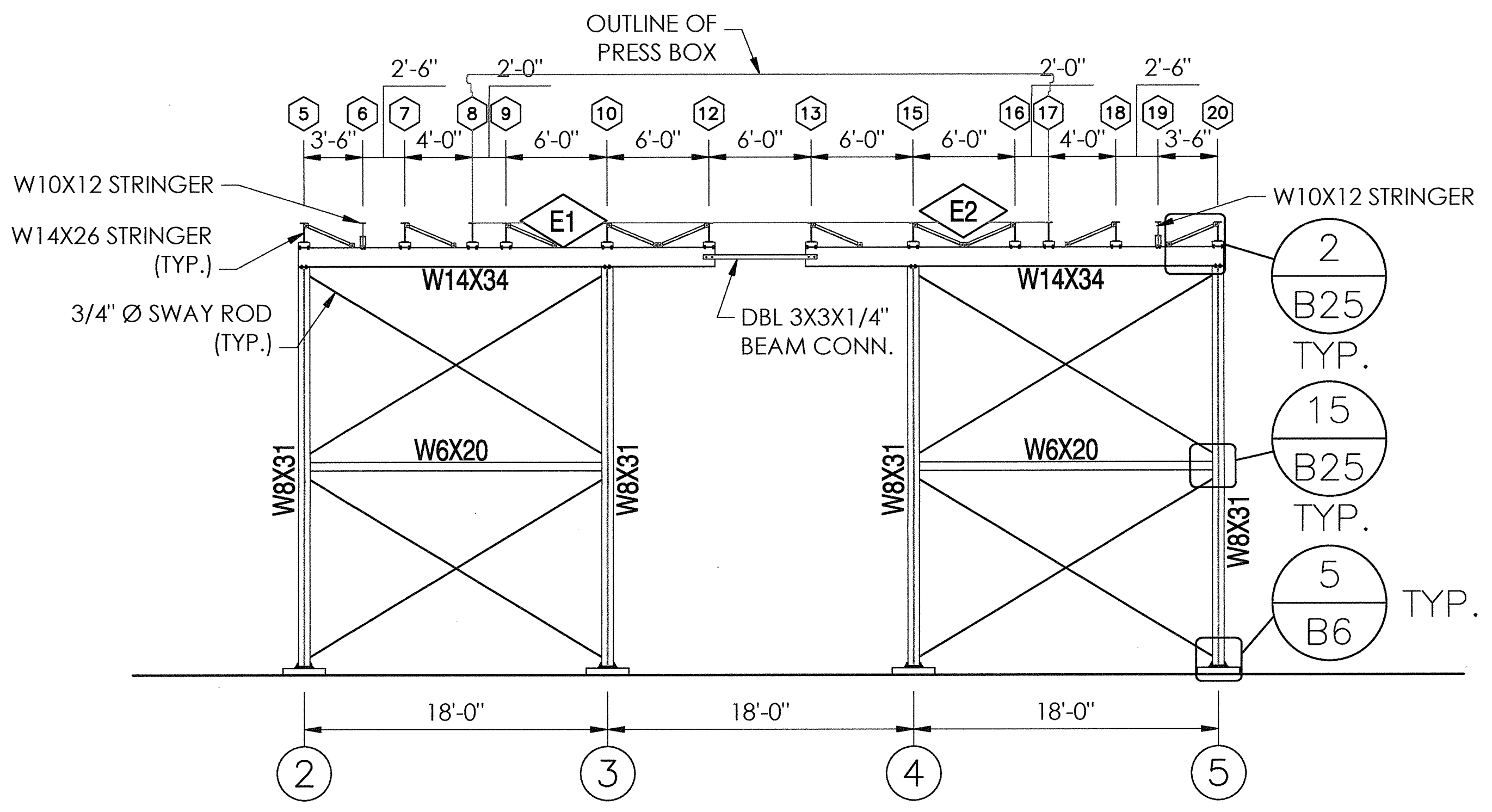
TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

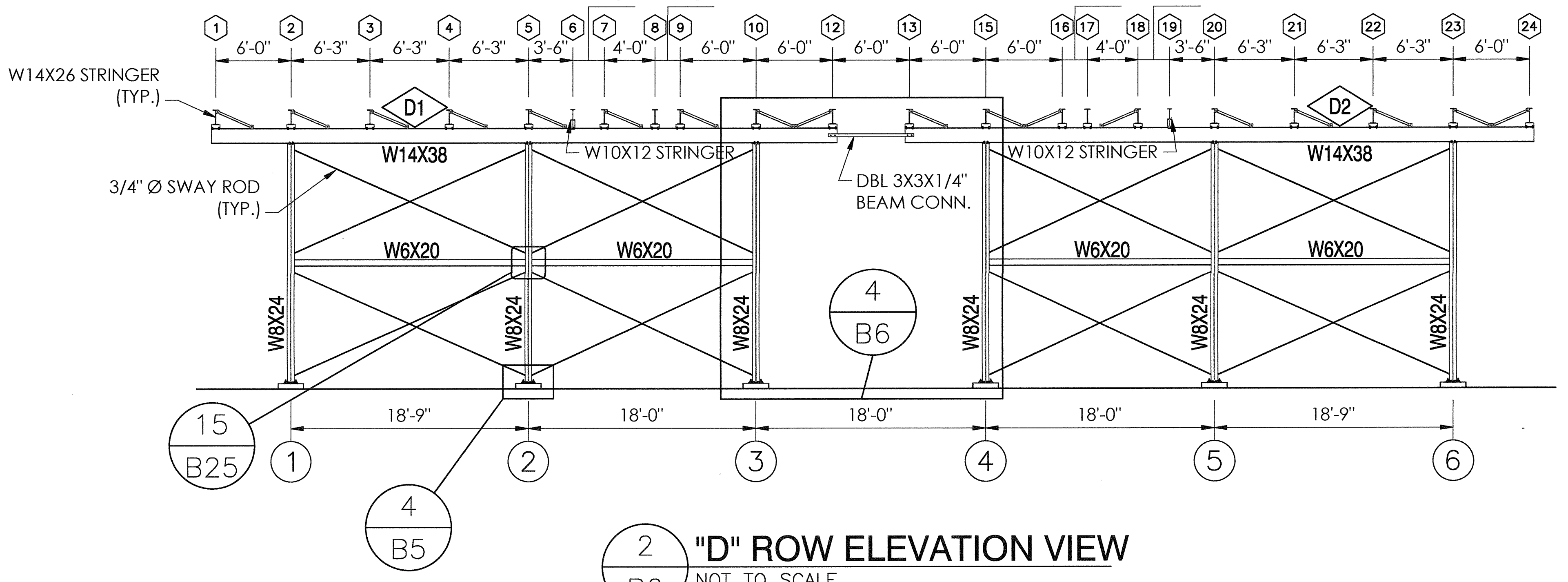
JOB NUMBER
14202

SHEET	OF
B-5	B-30

22" X 34" (11x17 = 1/2 indicated scale)

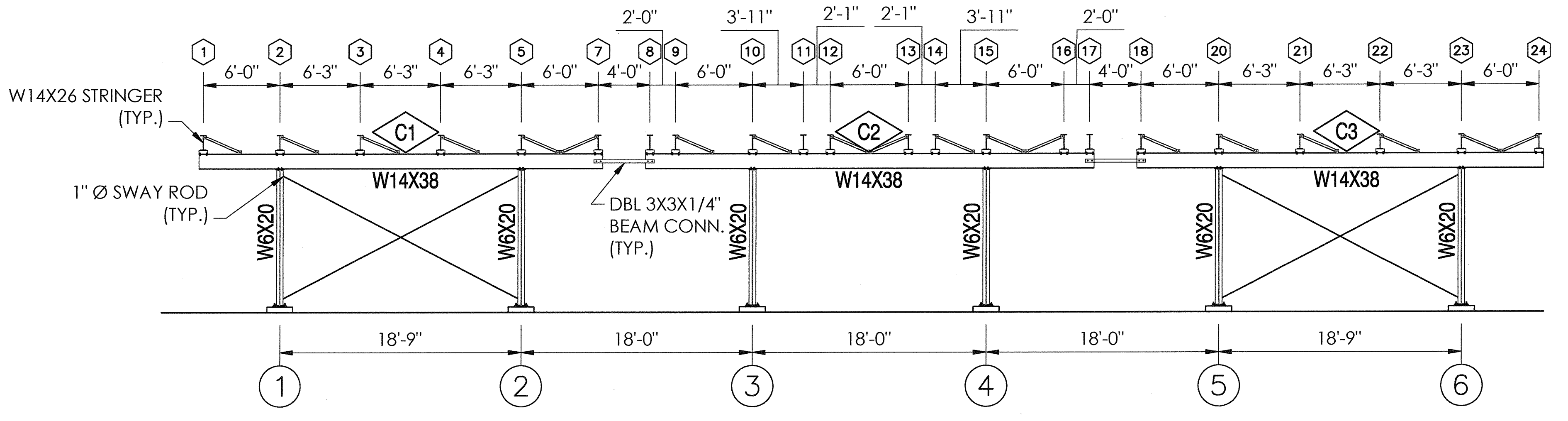


1 / B6 "E" ROW ELEVATION VIEW
NOT TO SCALE

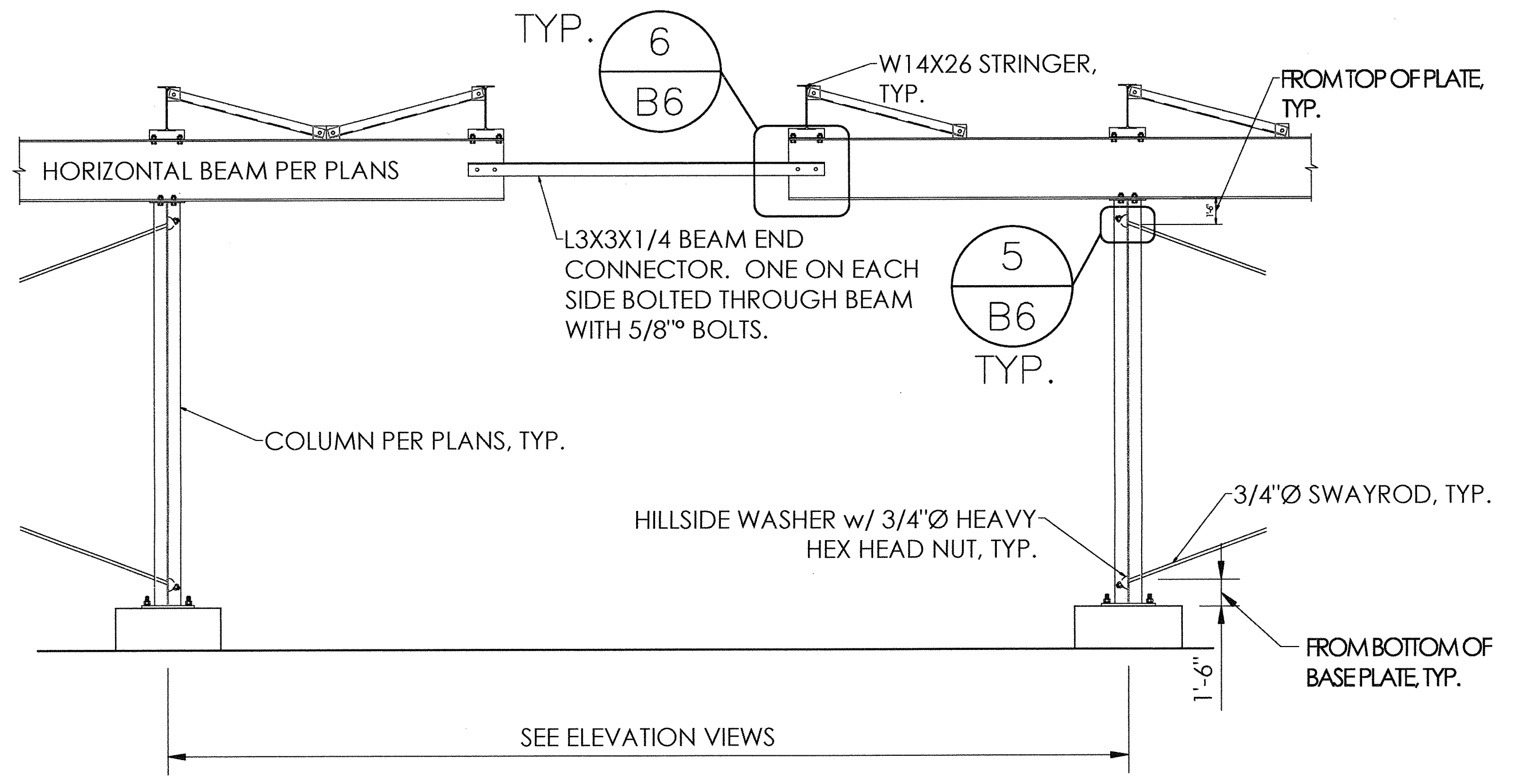


2 / B6 "D" ROW ELEVATION VIEW
NOT TO SCALE

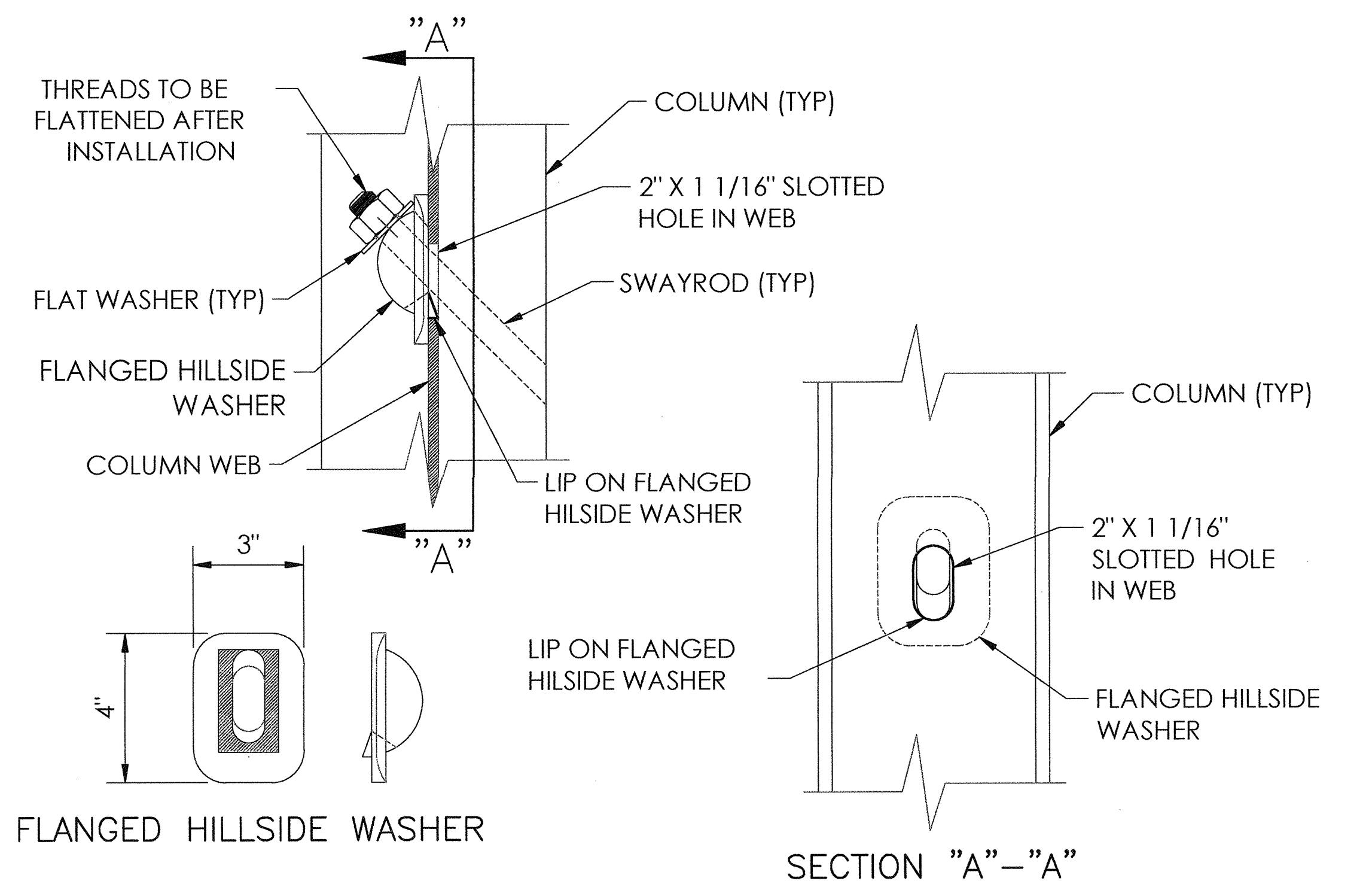
TYP.



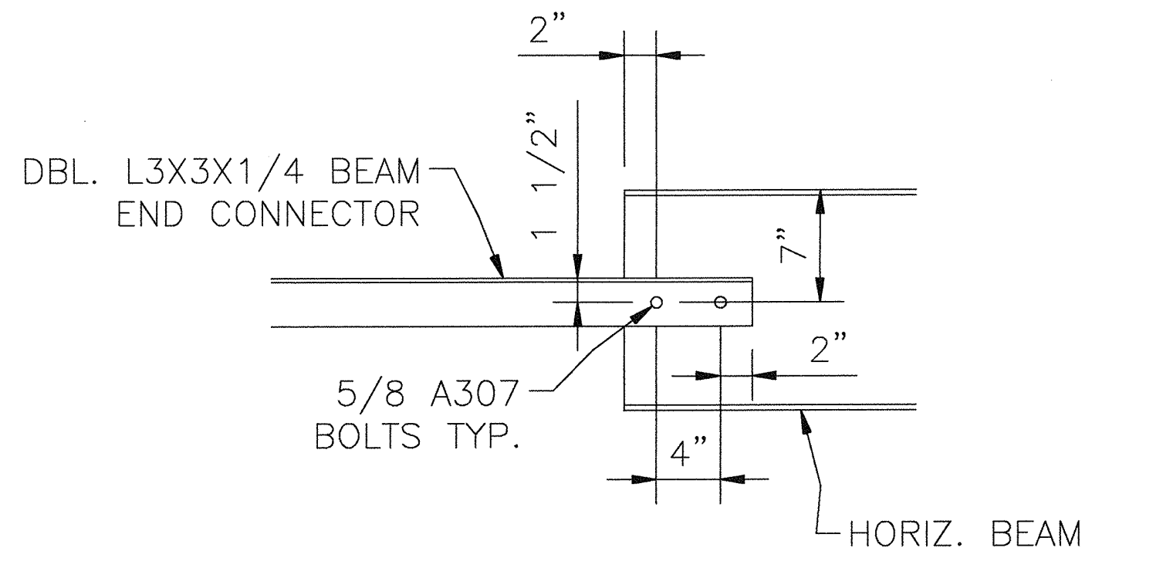
3 / B6 "C" ROW ELEVATION VIEW
NOT TO SCALE


TYP. 6 B6
W14X26 STRINGER, TYP.
FROM TOP OF PLATE, TYP.
HORIZONTAL BEAM PER PLANS
L3X3X1/4 BEAM END CONNECTOR. ONE ON EACH SIDE BOLTED THROUGH BEAM WITH 5/8"Ø BOLTS.
5 B6 TYP.
COLUMN PER PLANS, TYP.
HILLSIDE WASHER w/ 3/4"Ø HEAVY HEX HEAD NUT, TYP.
3/4"Ø SWAYROD, TYP.
FROM BOTTOM OF BASE PLATE, TYP.
1'-6"
SEE ELEVATION VIEWS

4 / B6 ELEVATION DETAIL
NOT TO SCALE


"A"
THREADS TO BE FLATTENED AFTER INSTALLATION
COLUMN (TYP)
2" X 1 1/16" SLOTTED HOLE IN WEB
SWAYROD (TYP)
FLAT WASHER (TYP)
FLANGED HILLSIDE WASHER
COLUMN WEB
LIP ON FLANGED HILLSIDE WASHER
"A"
3"
4"
COLUMN (TYP)
2" X 1 1/16" SLOTTED HOLE IN WEB
LIP ON FLANGED HILLSIDE WASHER
FLANGED HILLSIDE WASHER
FLANGED HILLSIDE WASHER
SECTION "A"–"A"

5 / B6 FLANGED HILLSIDE WASHER INST. DETAIL
NOT TO SCALE



6 / B6 BEAM END CONN. DETAIL
NOT TO SCALE

A# 03-117117
AC N.N FLS [illegible] SS
DATE FEB 0 3 2017
FILE # 19-H10

1 DETAIL NUMBER
10 SHEET SHOWN ON

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Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE ELEVATION VIEW (HOME)

TITLE EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE 3/23/15 DRAWN AA CHECKED DMc
JOB NUMBER 14202
SHEET B-6 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)

CBC 2013:
PROVIDE 0.08" WIDTH PER SEAT FOR AISLES & STAIRS:
EQUIVALENT TO 150 PEOPLE PER FOOT.
PROVIDE 0.08" WIDTH PER SEAT FOR RAMPS:
EQUIVALENT TO 200 PEOPLE PER FOOT.

AISLE WIDTH CALCULATIONS:

AISLE #1 & #4
REQUIRED AISLE WIDTH = 230 SEATS X 0.08" PER SEAT =
18.4" <4'-0" CODE MINIMUM <4'-6" PROVIDED - OK

AISLE #2 & #3
REQUIRED AISLE WIDTH = 314 SEATS X 0.08" PER SEAT =
25.12" <4'-0" CODE MINIMUM <4'-6" PROVIDED - OK

AISLE #5 & #6
REQUIRED AISLE WIDTH = 26 SEATS X 0.08" PER SEAT =
2.08" <4'-0" CODE MINIMUM <4'-0" PROVIDED - OK

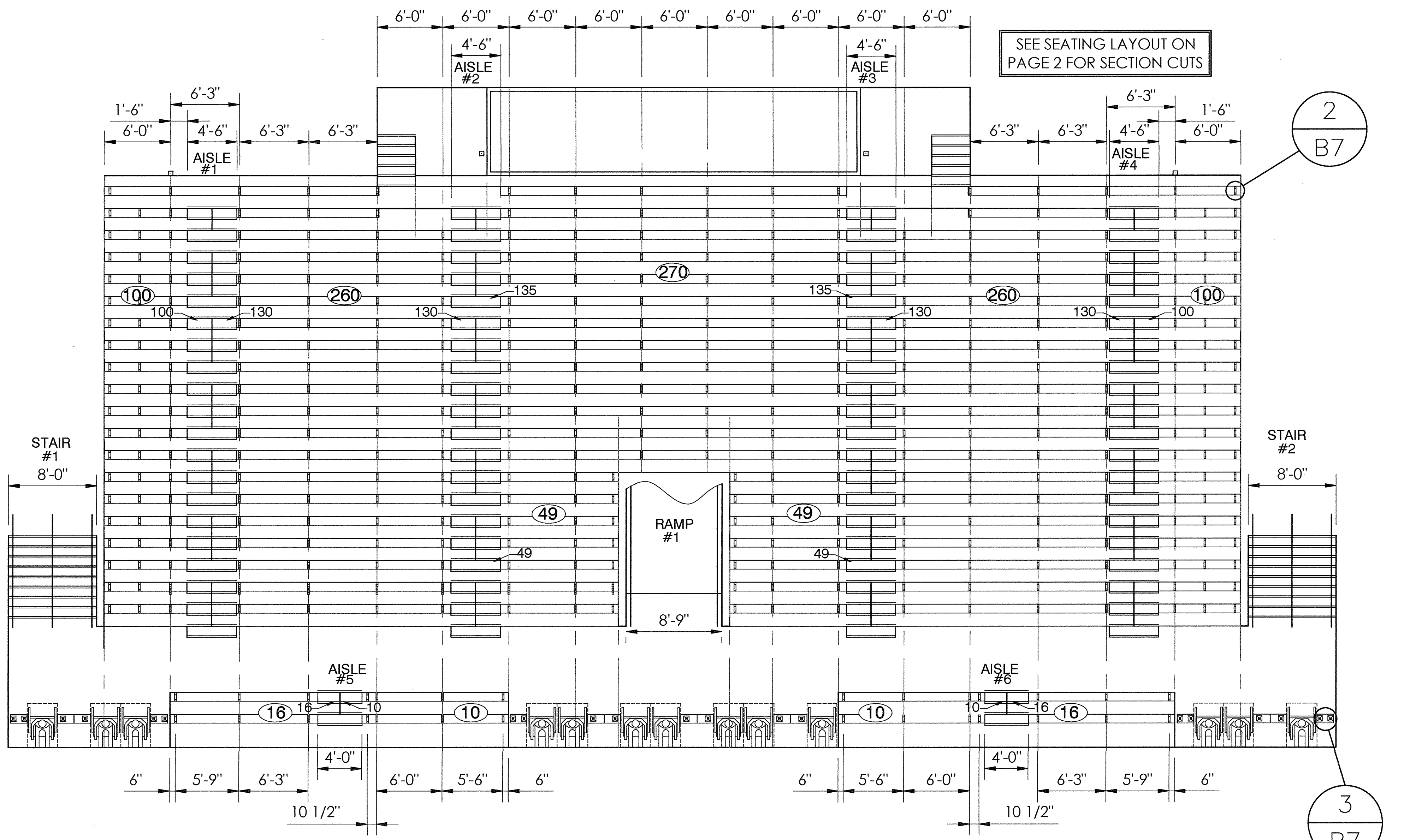
AISLE ACCESSWAY:
24" TREAD DEPTH
CLEAR WIDTH = DEPTH (24") LESS SEAT WIDTH (9.5") = 14.5"

21 SEATS FIRST 12" CLEAR =	21 SEATS
.03" EACH ADDITIONAL SEAT: 14.5"-12" / 0.3" =	8 SEATS
MAXIMUM SEATS BETWEEN AISLES:	29 SEATS
MAXIMUM WIDTH BETWEEN AISLES:	29 X 1.5' / SEAT = 43'-6"
MAXIMUM ROW LENGTH =	33'-0" OK

EXIT WIDTH CALCULATIONS:

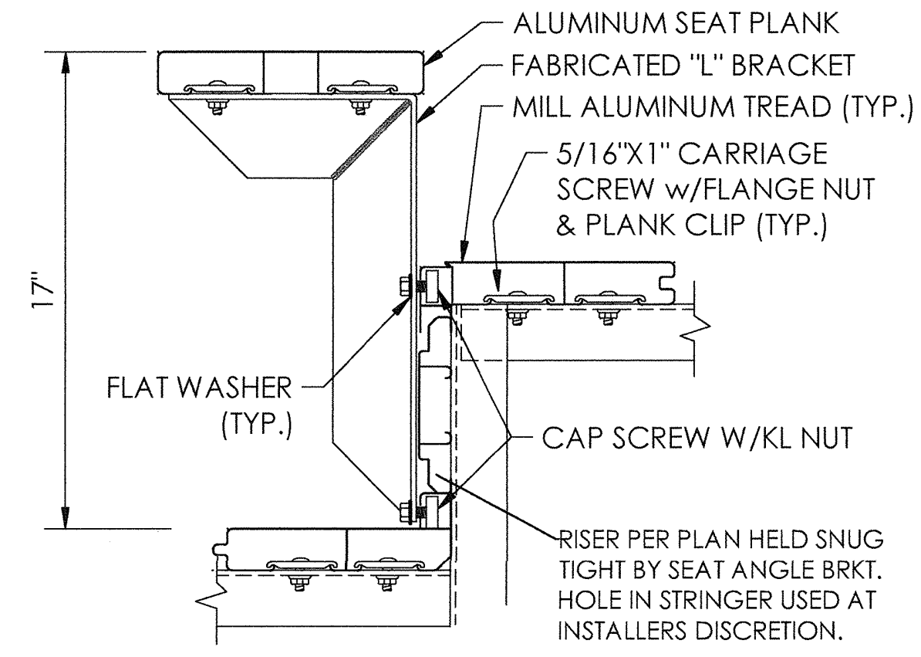
STAIRS #1 & #2	@ 8'-0"	=	16'-0"
			16'-0" TOTAL STAIR EXIT WIDTH
RAMP #1	@ 8'-9"	=	8'-9"
			8'-9" TOTAL RAMP EXIT WIDTH

STAIR EXIT CAPACITY =	16'-0"	X 150 PEOPLE PER FOOT	=	2400 STAIR EXIT CAPACITY FURNISHED
RAMP EXIT CAPACITY =	8'-9"	X 200 PEOPLE PER FOOT	=	1750 RAMP EXIT CAPACITY FURNISHED
				4150 TOTAL EXIT CAPACITY (ACTUAL CAPACITY 1158)

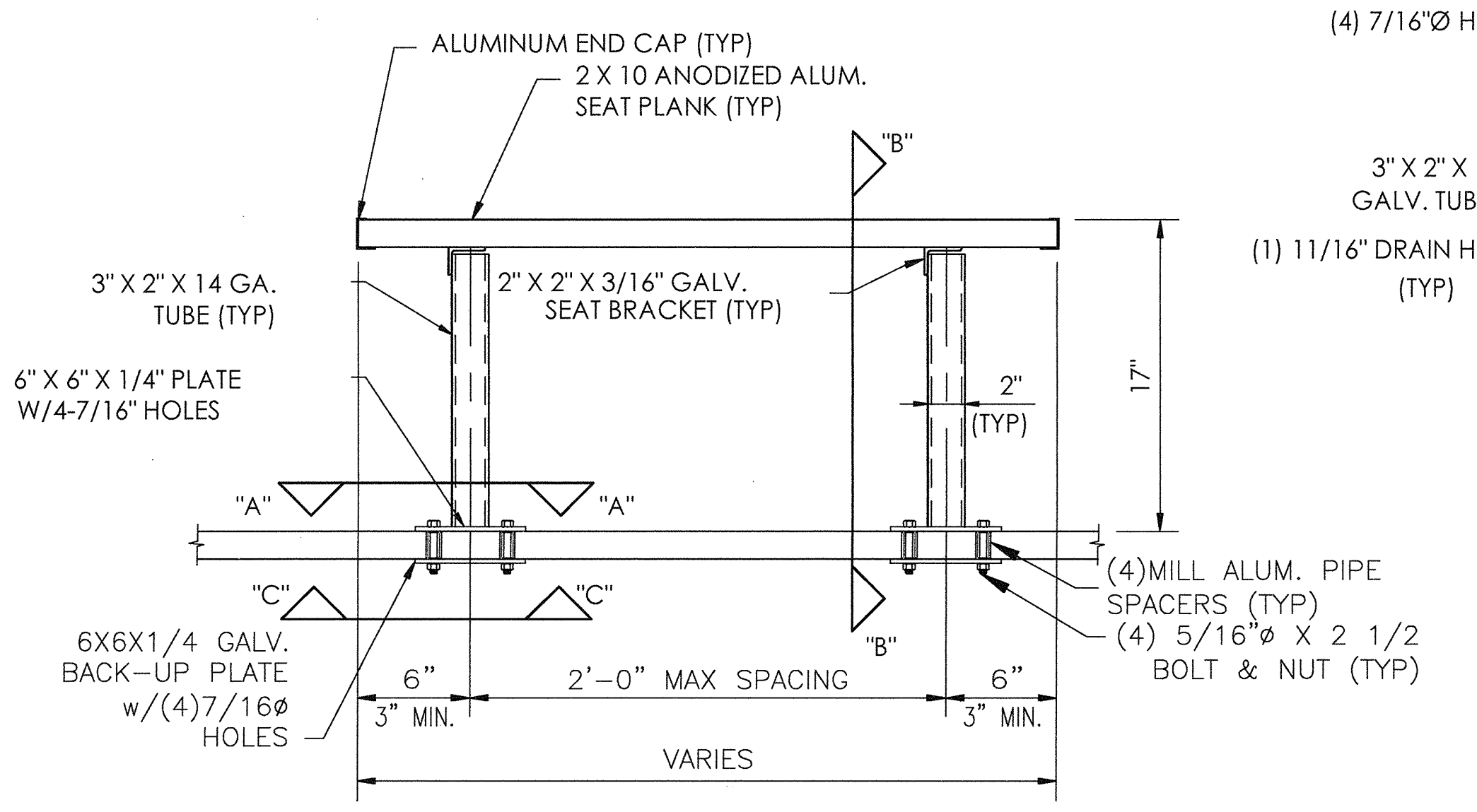


430 TOTAL SEAT BRACKETS
20 MAVERICK SEAT BRACKETS

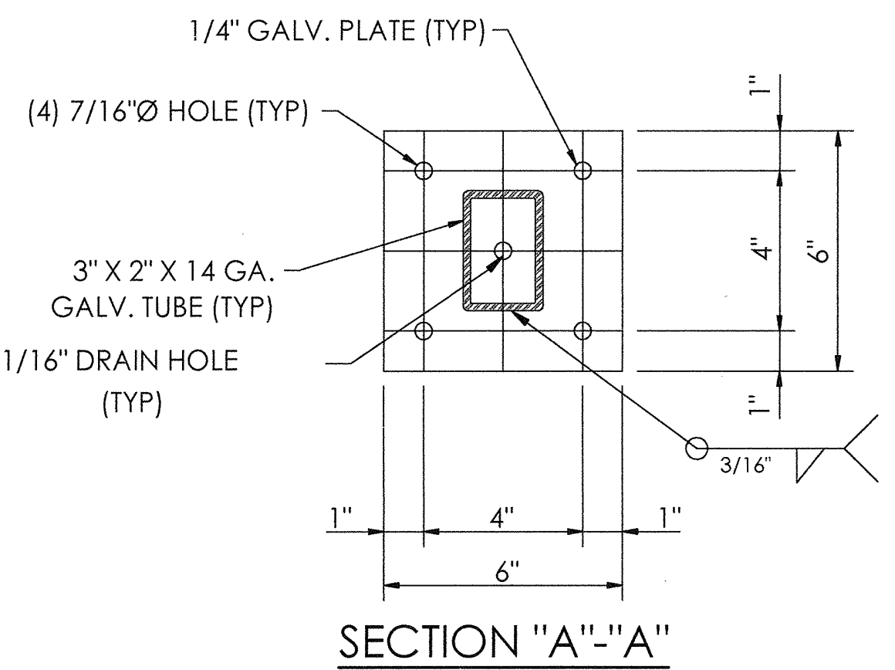
1 / B7 BRACKET/CALCULATIONS LAYOUT
SCALE: 1/8"=1'-0"


ALUMINUM SEAT PLANK
FABRICATED "L" BRACKET
MILL ALUMINUM TREAD (TYP.)
5/16"X1" CARRIAGE SCREW w/FLANGE NUT & PLANK CLIP (TYP.)
17"
FLAT WASHER (TYP.)
CAP SCREW W/KL NUT
RISER PER PLAN HELD SNUG TIGHT BY SEAT ANGLE BRKT. HOLE IN STRINGER USED AT INSTALLERS DISCRETION.

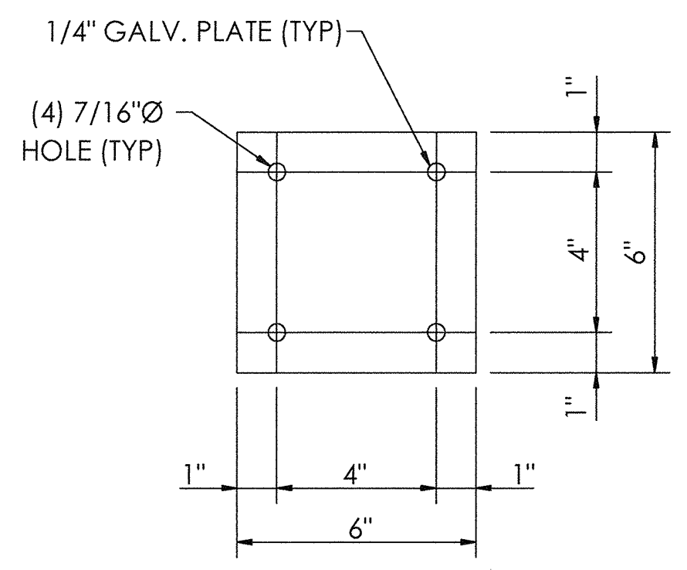
2 / B7 "L" BRACKET DETAIL
NOT TO SCALE


ALUMINUM END CAP (TYP)
2 X 10 ANODIZED ALUM. SEAT PLANK (TYP)
"B"
3" X 2" X 14 GA. TUBE (TYP)
2" X 2" X 3/16" GALV. SEAT BRACKET (TYP)
6" X 6" X 1/4" PLATE W/4-7/16" HOLES
2"
(TYP)
17"
"A"
"C"
6X6X1/4 GALV. BACK-UP PLATE w/(4)7/16ø HOLES
(4)MILL ALUM. PIPE SPACERS (TYP)
(4) 5/16"ø X 2 1/2 BOLT & NUT (TYP)
6"
3" MIN.
2'-0" MAX SPACING
VARIES

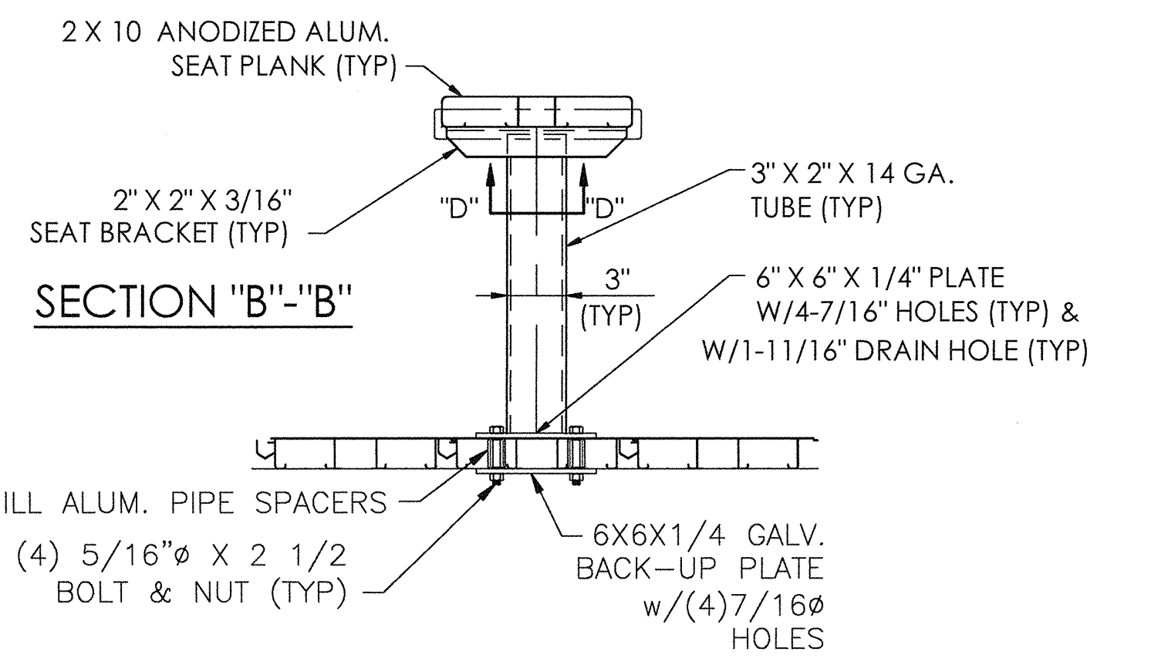
3 / B7 MAVERICK BENCH DETAIL
NOT TO SCALE


1/4" GALV. PLATE (TYP)
(4) 7/16"Ø HOLE (TYP)
3" X 2" X 14 GA. GALV. TUBE (TYP)
(1) 11/16" DRAIN HOLE (TYP)
1"
4"
6"
3/16"

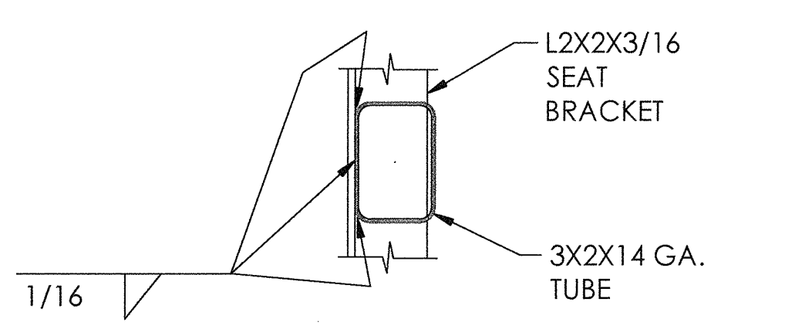
SECTION "A"-"A"



SECTION "C"-"C"


2 X 10 ANODIZED ALUM. SEAT PLANK (TYP)
2" X 2" X 3/16" SEAT BRACKET (TYP)
"D"
3" X 2" X 14 GA. TUBE (TYP)
3"
(TYP)
6" X 6" X 1/4" PLATE W/4-7/16" HOLES (TYP) & W/1-11/16" DRAIN HOLE (TYP)
(4)MILL ALUM. PIPE SPACERS
(4) 5/16"ø X 2 1/2 BOLT & NUT (TYP)
6X6X1/4 GALV. BACK-UP PLATE w/(4)7/16ø HOLES

SECTION "B"-"B"



SECTION "D"-"D"

A# 03-117117
AC N.M. FLS B SS
DATE FEB 0 3 2017

FILE # 19-H10

DETAIL NUMBER
SHEET SHOWN ON

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PH: (559)449-8444 • FAX: (559)449-8404

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PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

TYPE
SEAT BRACKET LAYOUT (HOME)
103'-6" X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	ADDED SEATING TO ROWS 1 & 2
1	MG	12/15/15	ADDED LIGHT POLES

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

SHEET B-7 OF B-30

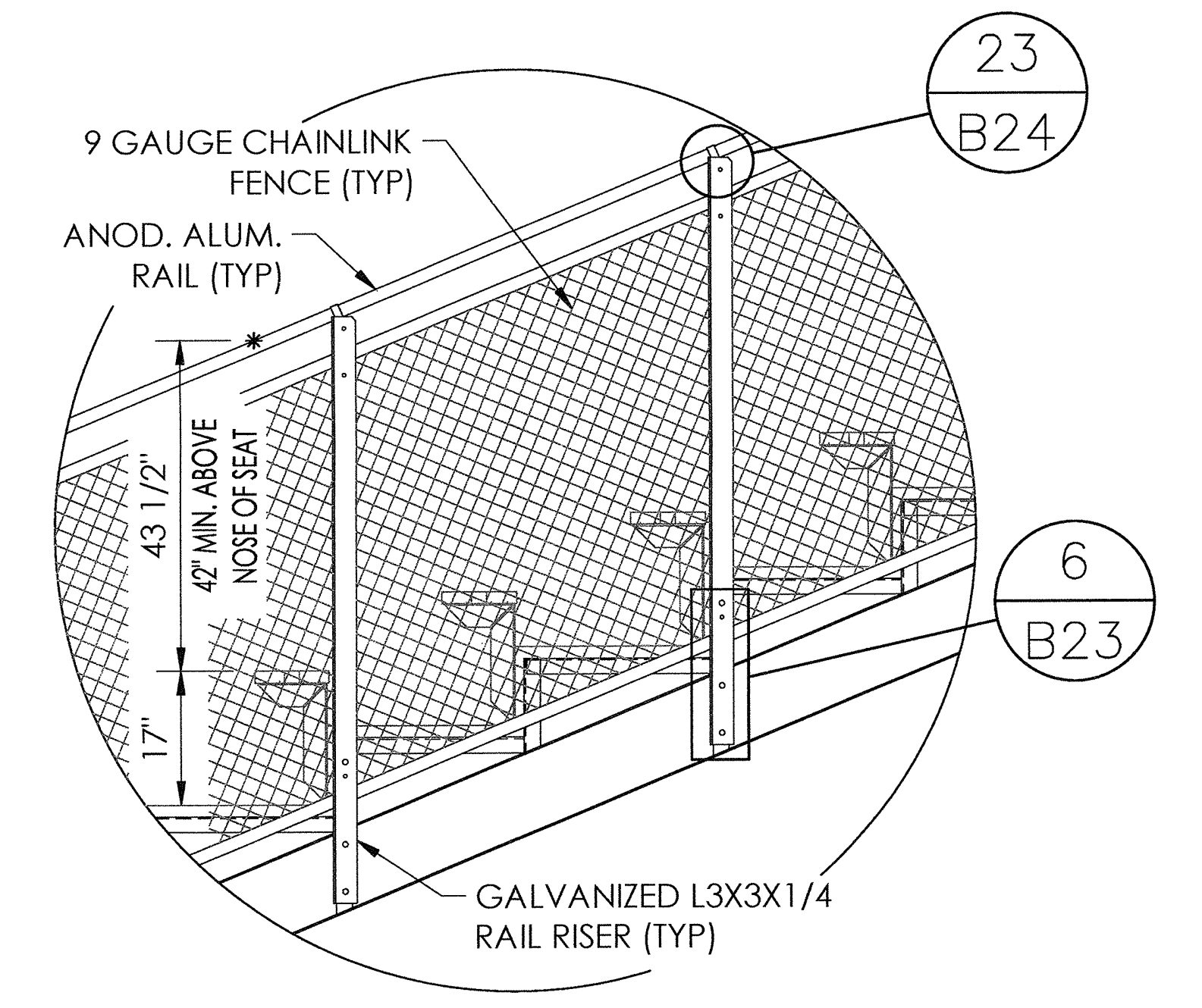
22" X 34" (11x17 = 1/2 indicated scale)

ITEM DESCRIPTION

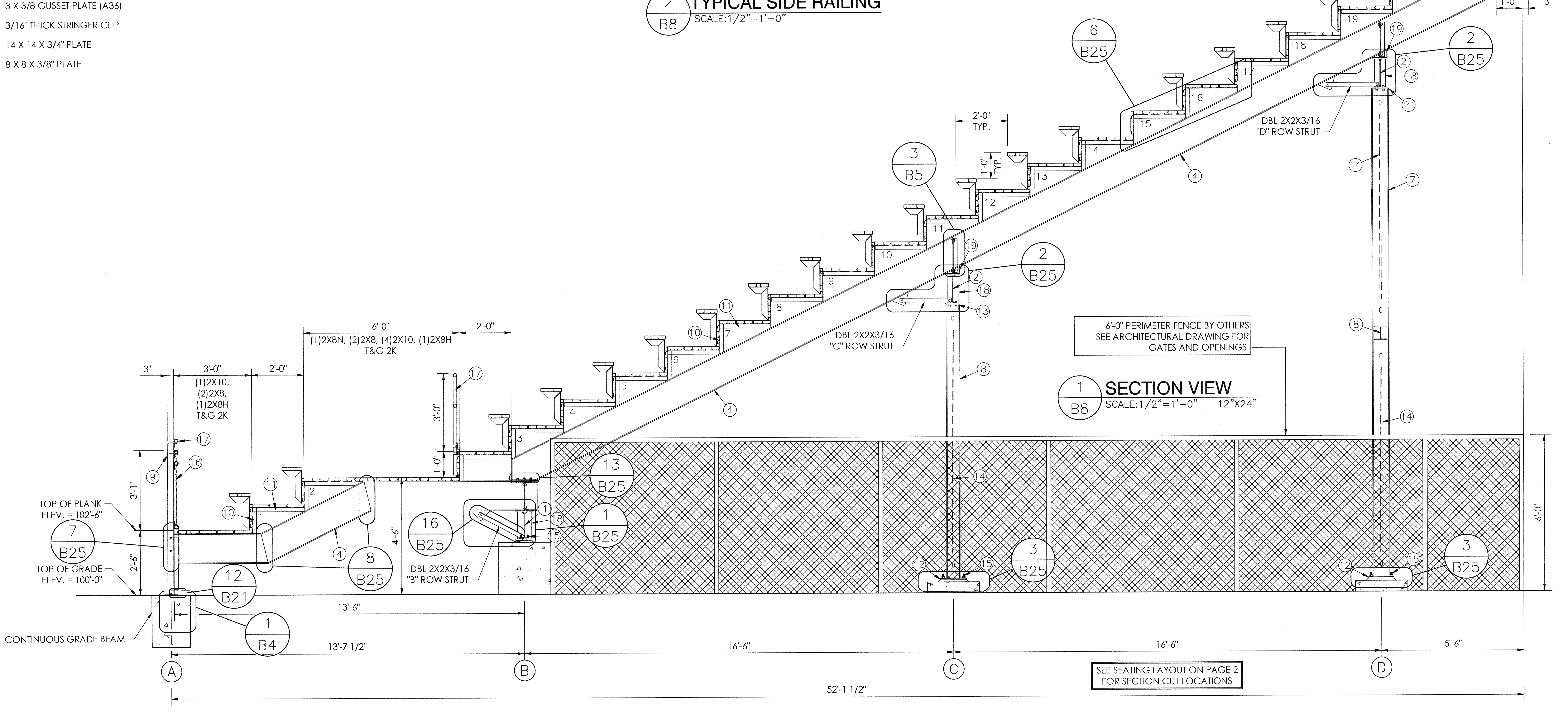
①	W 14 X 43 (50 ksi)
②	W 14 X 38 (50 ksi)
③	W 14 X 34 (50 ksi)
④	W 14 X 26 (50 ksi)
⑤	W 10 X 12 (50 ksi)
⑥	W 8 X 31 (50 ksi)
⑦	W 8 X 24 (50 ksi)
⑧	W 6 X 20 (50 ksi)
⑨	L 3 X 3 X 1/4 (50 ksi)
⑩	L 2 X 2 X 3/16 (50 ksi)
⑪	L 2 X 1 1/2 X 3/16 (50 ksi)
⑫	12 X 12 X 5/8 PLATE
⑬	6 X 8 X 3/8 PLATE
⑭	3/4 X REQ'D LENGTH SWAY ROD (50 ksi)
⑮	3/4 X 18 ANCHOR BOLT W/2 HEX HEAD NUTS & FLAT WASHER
⑯	9 GAUGE CHAINLINK FENCE
⑰	ANODIZED ALUMINUM RAIL (SEE NOTES)
⑱	3 X 3/8 GUSSET PLATE (A36)
⑲	3/16" THICK STRINGER CLIP
⑳	14 X 14 X 3/4" PLATE
㉑	8 X 8 X 3/8" PLATE

GRADE 36 ANCHOR BOLTS
(HOP DIP GALV., U.N.O)

A# 03-117117
AC N.N. FLS KS SS
DATE FEB 0 3 2017
FILE # 19-H10


9 GAUGE CHAINLINK FENCE (TYP)
ANOD. ALUM. RAIL (TYP)
43 1/2"
42" MIN. ABOVE NOSE OF SEAT
17"
23 / B24
6 / B23
GALVANIZED L3X3X1/4 RAIL RISER (TYP)

2 / B8 **TYPICAL SIDE RAILING**
SCALE:1/2"=1'-0"



6'-0" PERIMETER FENCE BY OTHERS
SEE ARCHITECTURAL DRAWING FOR
GATES AND OPENINGS.

1 / B8 **SECTION VIEW**
SCALE:1/2"=1'-0" 12"X24"

SEE SEATING LAYOUT ON PAGE 2
FOR SECTION CUT LOCATIONS

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
SECTION VEW (HOME)
12" RISE X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS / FENCE @ GRADE
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

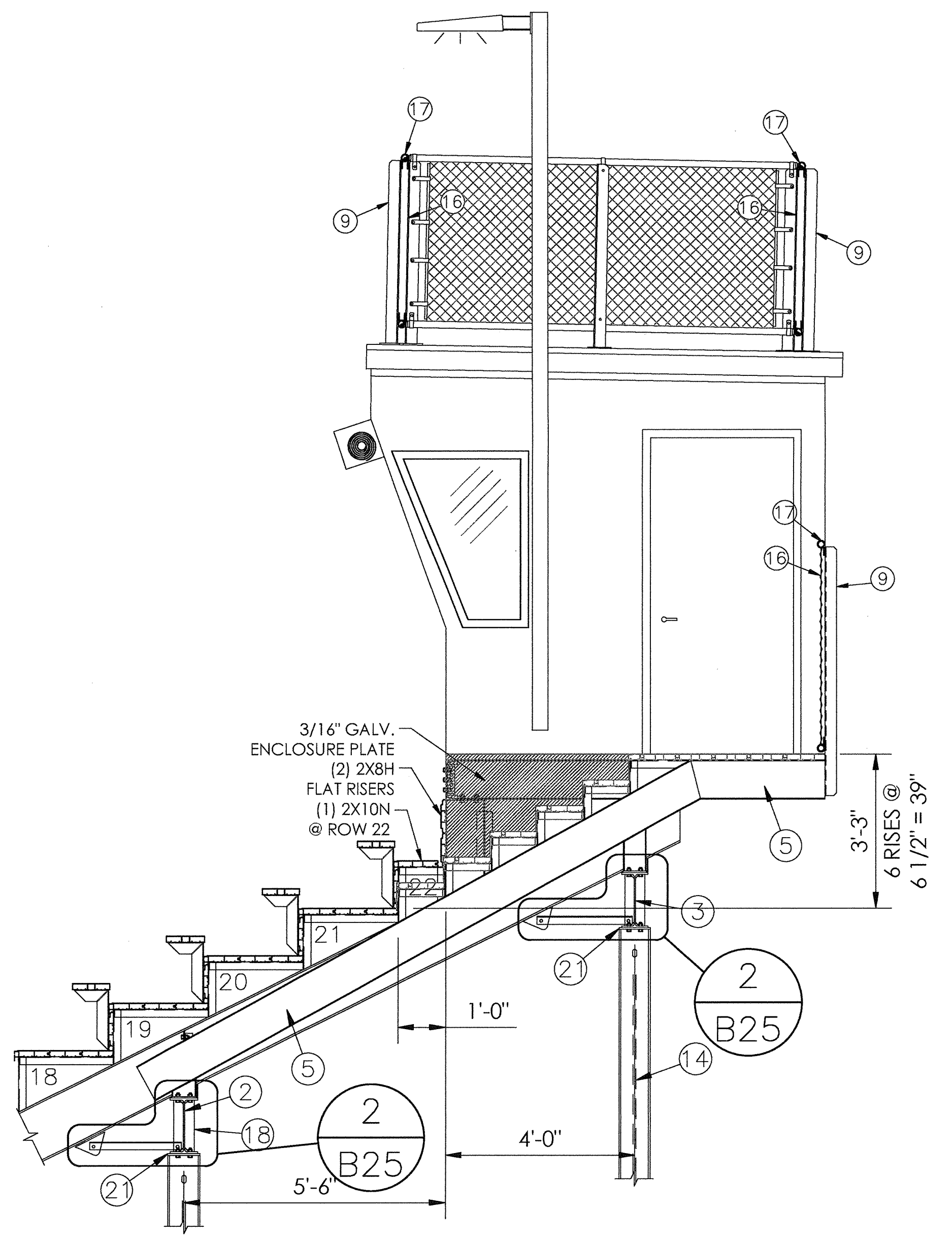
JOB NUMBER
14202

SHEET	OF
B-8	**B-30**

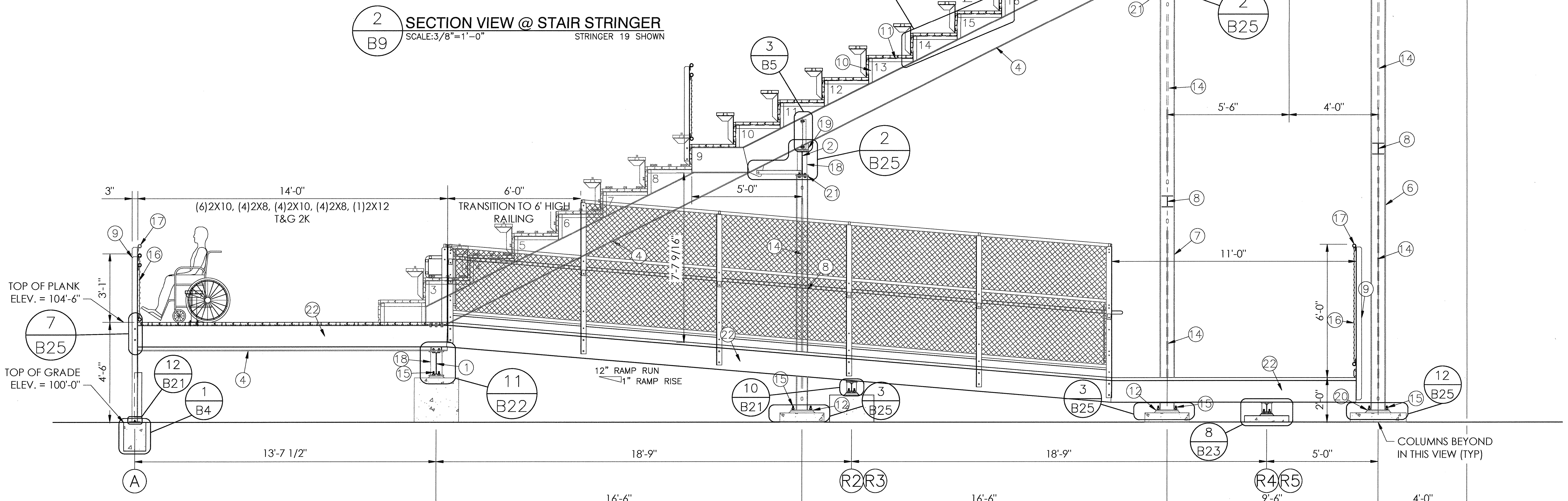
22" X 34" (11x17 = 1/2 indicated scale)

ITEM DESCRIPTION

①	W 14 X 43 (50 ksi)
②	W 14 X 38 (50 ksi)
③	W 14 X 34 (50 ksi)
④	W 14 X 26 (50 ksi)
⑤	W 10 X 12 (50 ksi)
⑥	W 8 X 31 (50 ksi)
⑦	W 8 X 24 (50 ksi)
⑧	W 6 X 20 (50 ksi)
⑨	L 3 X 3 X 1/4 (50 ksi)
⑩	L 2 X 2 X 3/16 (50 ksi)
⑪	L 2 X 1 1/2 X 3/16 (50 ksi)
⑫	12 X 12 X 5/8 PLATE
⑬	6 X 8 X 3/8 PLATE
⑭	3/4 X REQ'D LENGTH SWAY ROD (50 ksi)
⑮	3/4 X 18 ANCHOR BOLT W/2 HEX HEAD NUTS & FLAT WASHER
⑯	9 GAUGE CHAINLINK FENCE
⑰	ANODIZED ALUMINUM RAIL (SEE NOTES)
⑱	3 X 3/8 GUSSET PLATE (A36)
⑲	3/16" THICK STRINGER CLIP
⑳	14 X 14 X 3/4" PLATE
㉑	8 X 8 X 3/8" PLATE
㉒	W 12 X 14 (50 ksi)



2 / B9 SECTION VIEW @ STAIR STRINGER
SCALE:3/8"=1'–0" STRINGER 19 SHOWN



1 / B9 SECTION VIEW @ PRESSBOX
SCALE:3/8"=1'–0" 12"X24"

SEE SEATING LAYOUT ON PAGE 2
FOR SECTION CUT LOCATIONS

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

DETAIL NUMBER 1
SHEET SHOWN ON 10

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
SECTION VIEW @ PRESSBOX (HOME)
12" RISE X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

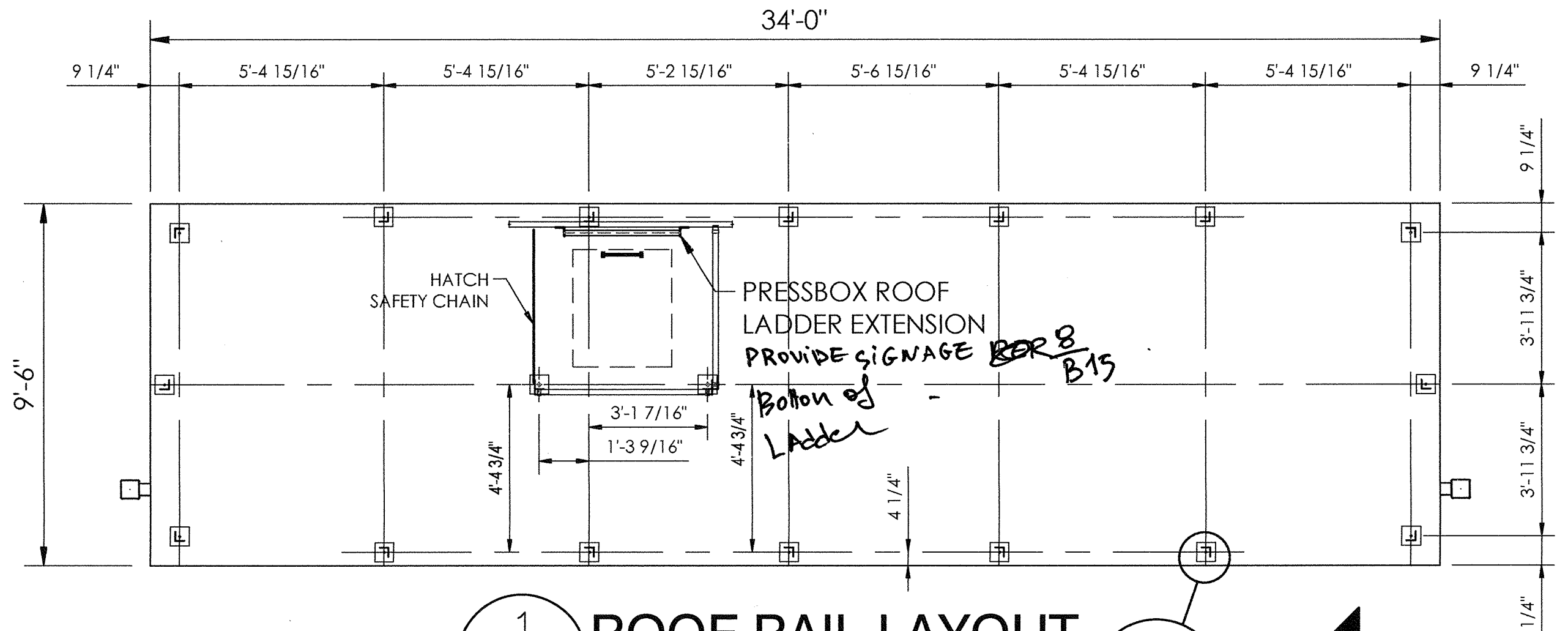
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	MODIFIED RAMP

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

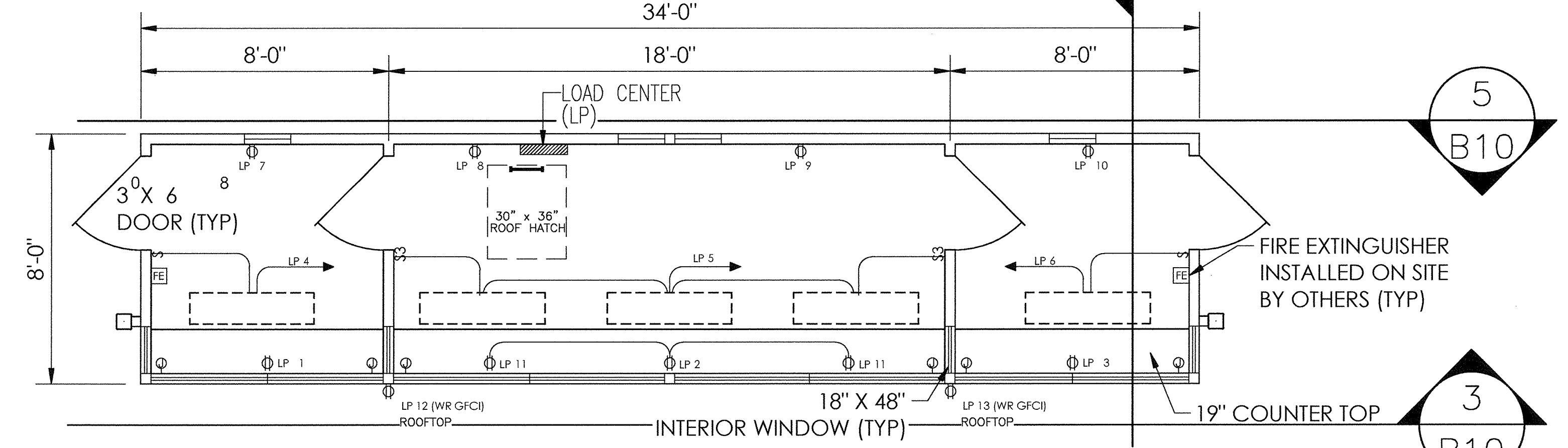
JOB NUMBER 14202

SHEET B-9 OF B-30

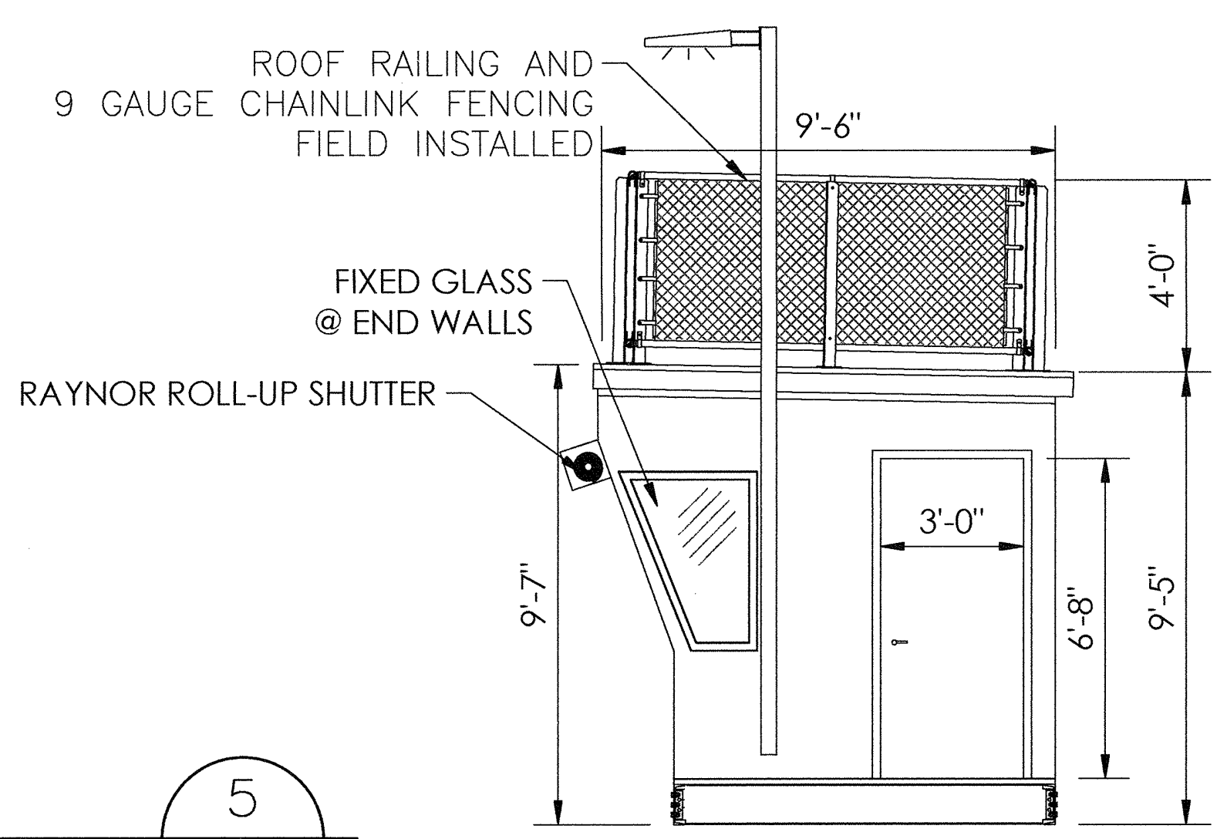
22" X 34" (11x17 = 1/2 indicated scale)



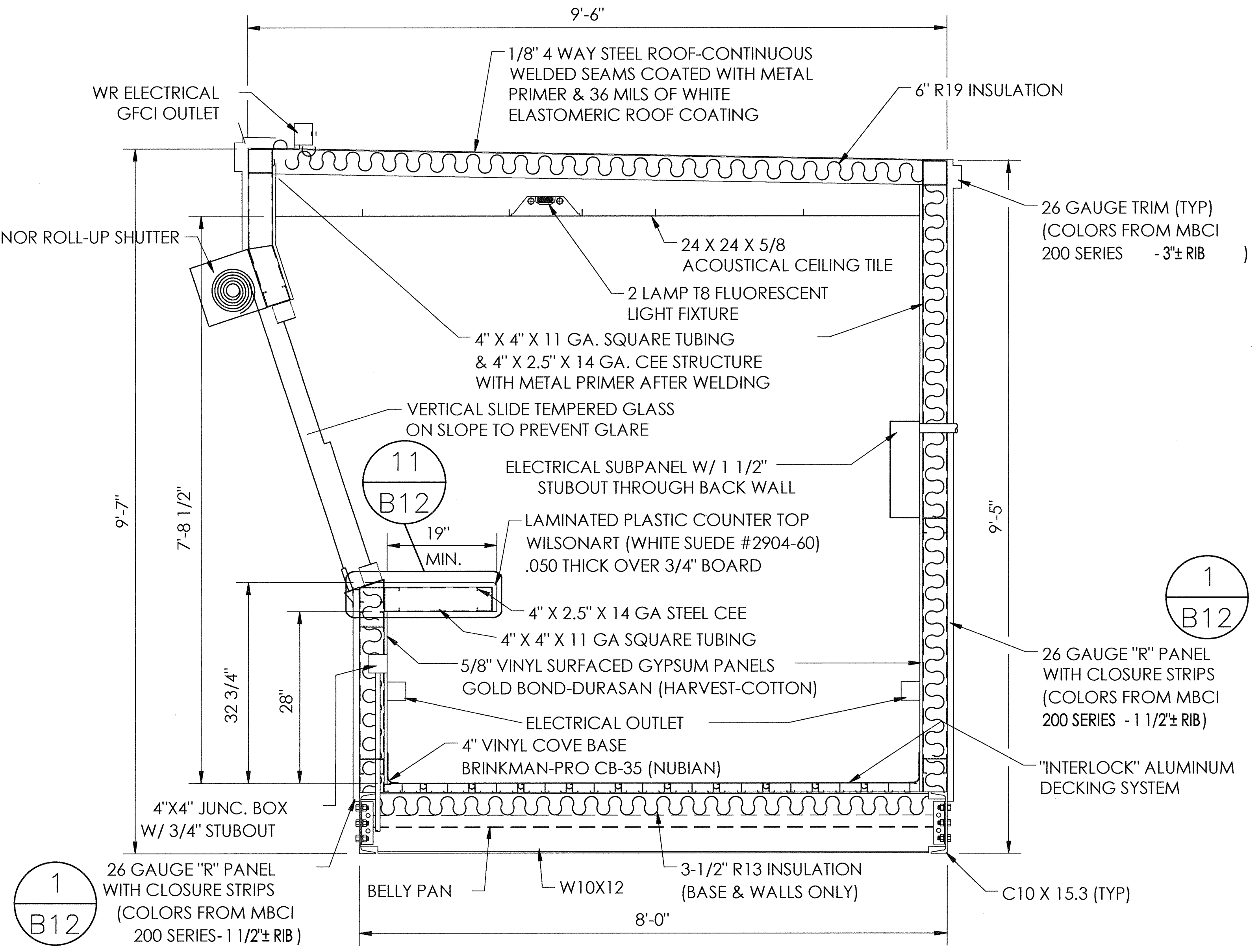
1/B10 **ROOF RAIL LAYOUT**
SCALE:1/4"=1'-0"



2/B10 **PLAN VIEW**
SCALE:1/4"=1'-0"



6/B10 **SIDE VIEW**
SCALE:1/4"=1'-0"


9'-6"
WR ELECTRICAL GFCI OUTLET
1/8" 4 WAY STEEL ROOF-CONTINUOUS WELDED SEAMS COATED WITH METAL PRIMER & 36 MILS OF WHITE ELASTOMERIC ROOF COATING
6" R19 INSULATION
RAYNOR ROLL-UP SHUTTER
24 X 24 X 5/8 ACOUSTICAL CEILING TILE
26 GAUGE TRIM (TYP) (COLORS FROM MBCI 200 SERIES - 3"± RIB)
2 LAMP T8 FLUORESCENT LIGHT FIXTURE
4" X 4" X 11 GA. SQUARE TUBING & 4" X 2.5" X 14 GA. CEE STRUCTURE WITH METAL PRIMER AFTER WELDING
VERTICAL SLIDE TEMPERED GLASS ON SLOPE TO PREVENT GLARE
ELECTRICAL SUBPANEL W/ 1 1/2" STUBOUT THROUGH BACK WALL
11/B12
19" MIN.
LAMINATED PLASTIC COUNTER TOP WILSONART (WHITE SUEDE #2904-60) .050 THICK OVER 3/4" BOARD
9'-7"
7'-8 1/2"
9'-5"
4" X 2.5" X 14 GA STEEL CEE
4" X 4" X 11 GA SQUARE TUBING
1/B12
32 3/4"
28"
5/8" VINYL SURFACED GYPSUM PANELS GOLD BOND-DURASAN (HARVEST-COTTON)
26 GAUGE "R" PANEL WITH CLOSURE STRIPS (COLORS FROM MBCI 200 SERIES - 1 1/2"± RIB)
ELECTRICAL OUTLET
4" VINYL COVE BASE BRINKMAN-PRO CB-35 (NUBIAN)
"INTERLOCK" ALUMINUM DECKING SYSTEM
4"X4" JUNC. BOX W/ 3/4" STUBOUT
1/B12
26 GAUGE "R" PANEL WITH CLOSURE STRIPS (COLORS FROM MBCI 200 SERIES- 1 1/2"± RIB)
BELLY PAN
W10X12
3-1/2" R13 INSULATION (BASE & WALLS ONLY)
C10 X 15.3 (TYP)
8'-0"

4/B10 **SECTION VIEW**
SCALE: 3/4"=1'-0"

LOAD CENTER SCHEDULE

PANEL LP 100 AMP - 16 CIRCUIT W/ EQUIPMENT GROUND 240/120 VOLTS 1 PH.

MOUNTING: ☐ FLUSH ☒ SURFACE 10,000 SYN. A.I.C. MIN. 100 AMP MAIN BREAKER

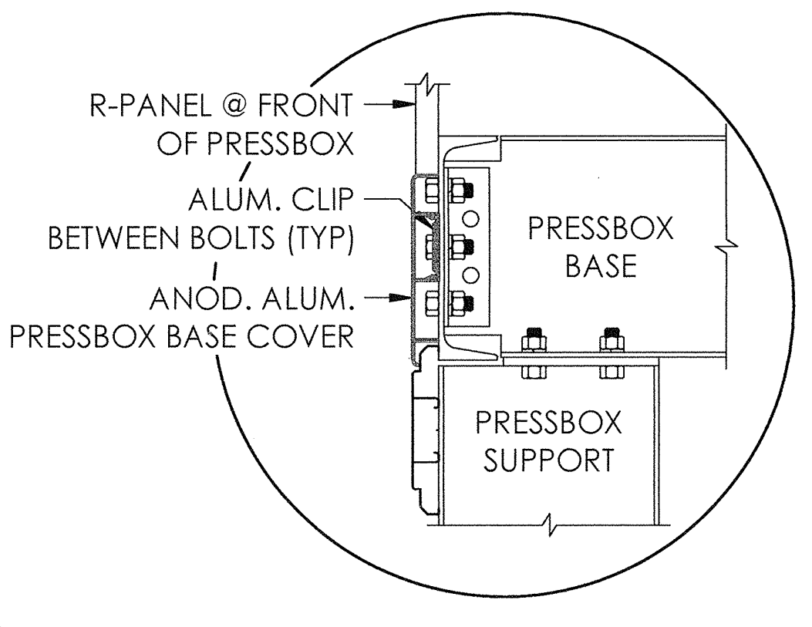
	BREAKER		CIR.	BUS		CIR.	BREAKER		
	SIZE	POLE	#	A	B	#	SIZE	POLE	
RECPT. FRONT WALL	20	1	1			2	20	1	RECPT. FRONT WALL
RECPT. FRONT WALL	20	1	3			4	20	1	(1) 1'X4' 2 LAMP RECESSED
(4) 1'X4' 2 LAMP RECESSED	20	1	5			6	20	1	(1) 1'X4' 2 LAMP RECESSED
RECPT. BACK WALL	20	1	7			8	20	1	RECPT. BACK WALL
RECPT. BACK WALL	20	1	9			10	20	1	RECPT. BACK WALL
2 RECPTACLES FRONT WALL	20	1	11			12	20	1	RECPT. ROOFTOP
RECPT. ROOFTOP	20	1	13			14	20	1	SPARE
SPARE	20	1	15			16			SPACE

Φ 15A. 125V. DUPLEX RECPT.
S3 15A. 125V. SINGLE POLE SWITCH
S 15A. 125V. SINGLE POLE SWITCH
Ⓙ 4X4X2 1/8" JUNCTION BOX W/ 3/4"C STUBOUT
1'X4'- 2 BULB FLUORESENT FIXTURE METALUX GR8 232 A UNV EB81U OR EQUAL

CONDUIT WILL BE 1/2" EMT, 1/2" STEELFLEX, OR SUFACE RACEWAY UNLESS OTHERWISE NOTED

WIRING ON 20A BREAKERS WILL BE #12 = THWN - THHN

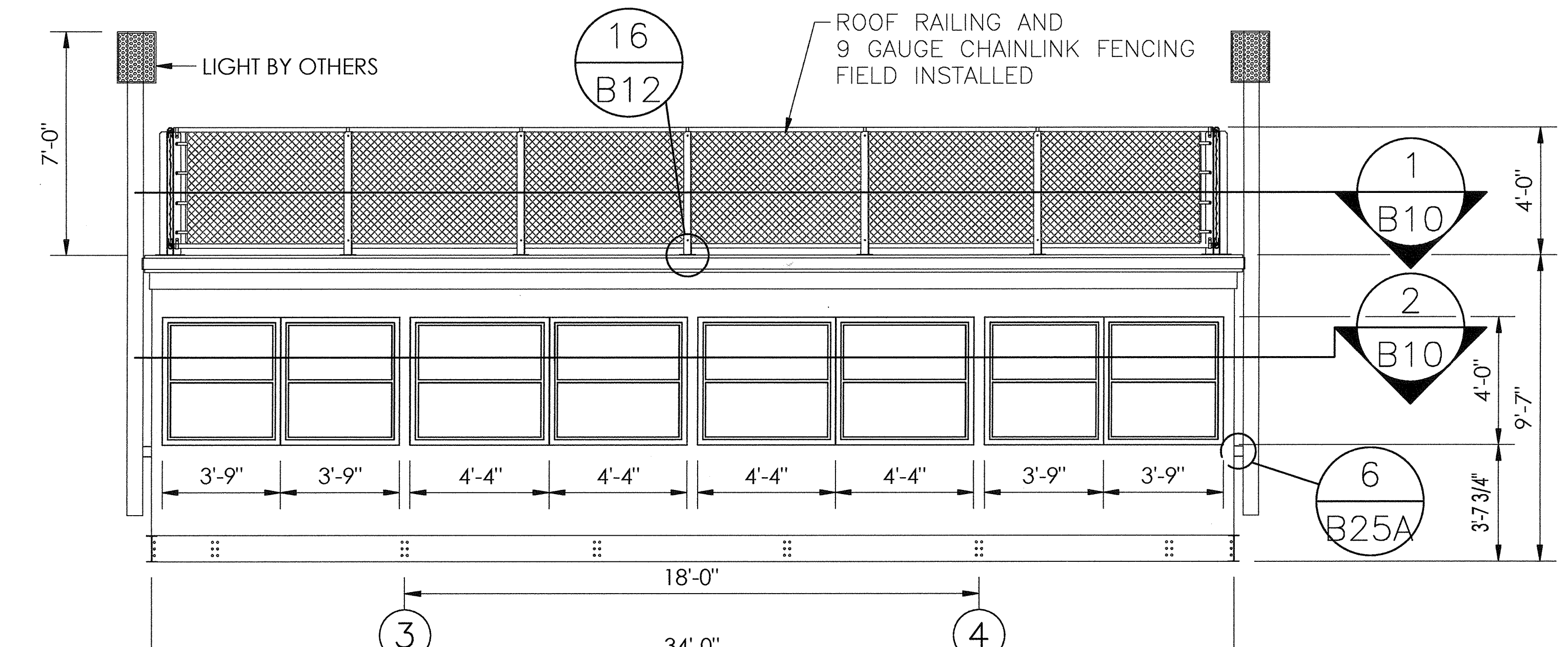
EQUIPMENT GROUND RUN IN ALL CONDUITS OR NON-METALLIC SURFACE RACEWAYS


R-PANEL @ FRONT OF PRESSBOX
ALUM. CLIP BETWEEN BOLTS (TYP)
ANOD. ALUM. PRESSBOX BASE COVER
PRESSBOX BASE
PRESSBOX SUPPORT

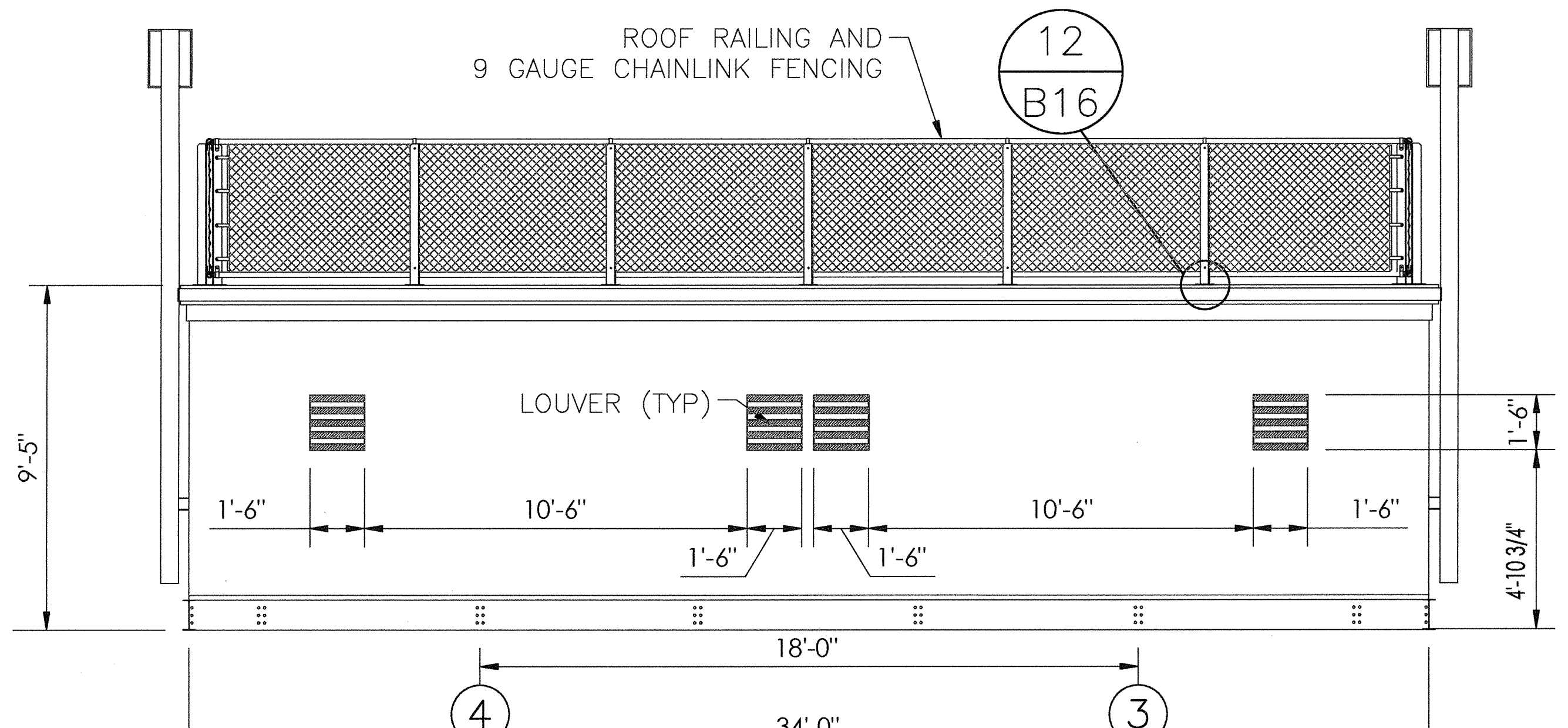
7/B10 **PRESSBOX BASE TRIM DETAIL**
NOT TO SCALE

NOTES:

- WALL PANELS ARE ATTACHED WITH #12 TEK SCREWS – 6" O.C. AT THE TOP AND BOTTOM OF THE PANELS AND 12" O.C. AT ANY INTERMEDIATE BRACE.
- LAP SCREWS ARE PLACED AT EACH END OF THE PANELS, AT THE INTERMEDIATE SUPPORTS, AND AT THE MID POINT BETWEEN SUPPORTS (TEK #14)
- ROOF DECK IS FOR MAINTENANCE ONLY. SIGNAGE "AUTHORIZED PERSONAL" ONLY. SEE 8/B15



3/B10 **FRONT ELEVATION VIEW**
SCALE:1/4"=1'-0"



5/B10 **REAR ELEVATION VIEW**
SCALE:1/4"=1'-0"

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

DETAIL NUMBER
SHEET SHOWN ON

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Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE
PRESSBOX PLAN SHEET (HOME)
8'-0" X 34'-0" PRESSBOX

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	ADDED SECURITY SHUTTERS
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	ADDED LIGHT POLE

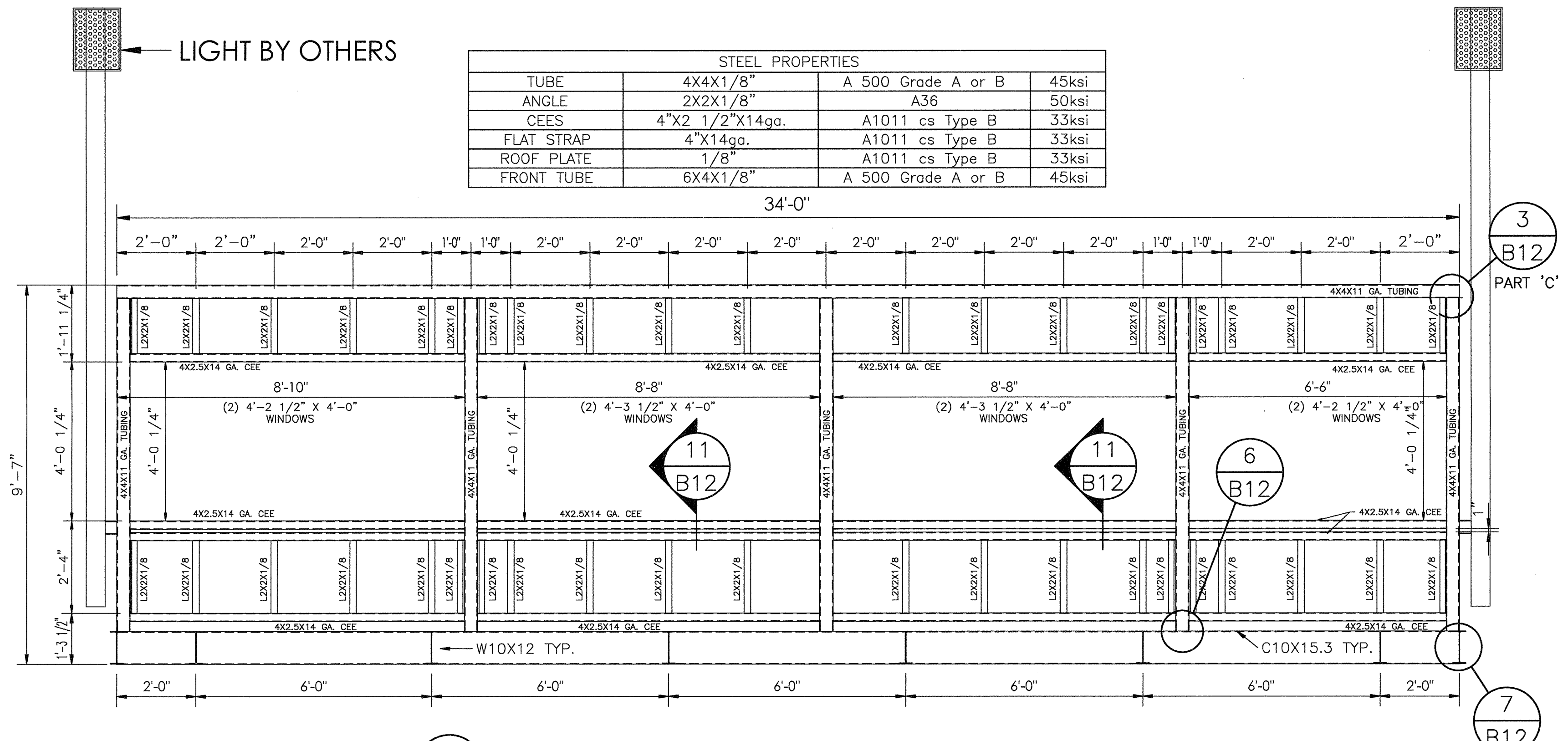
DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

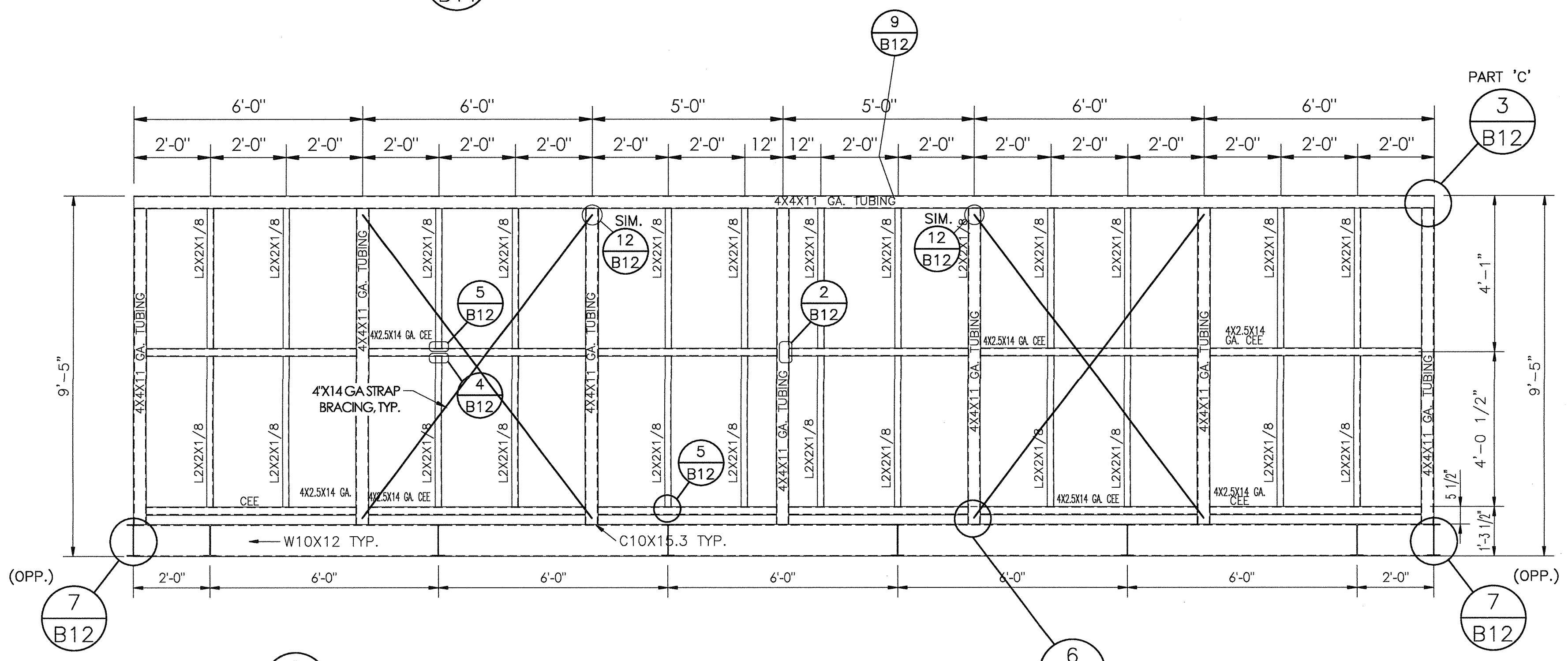
SHEET	OF
B-10	B-30

22" X 34" (11x17 = 1/2 indicated scale)

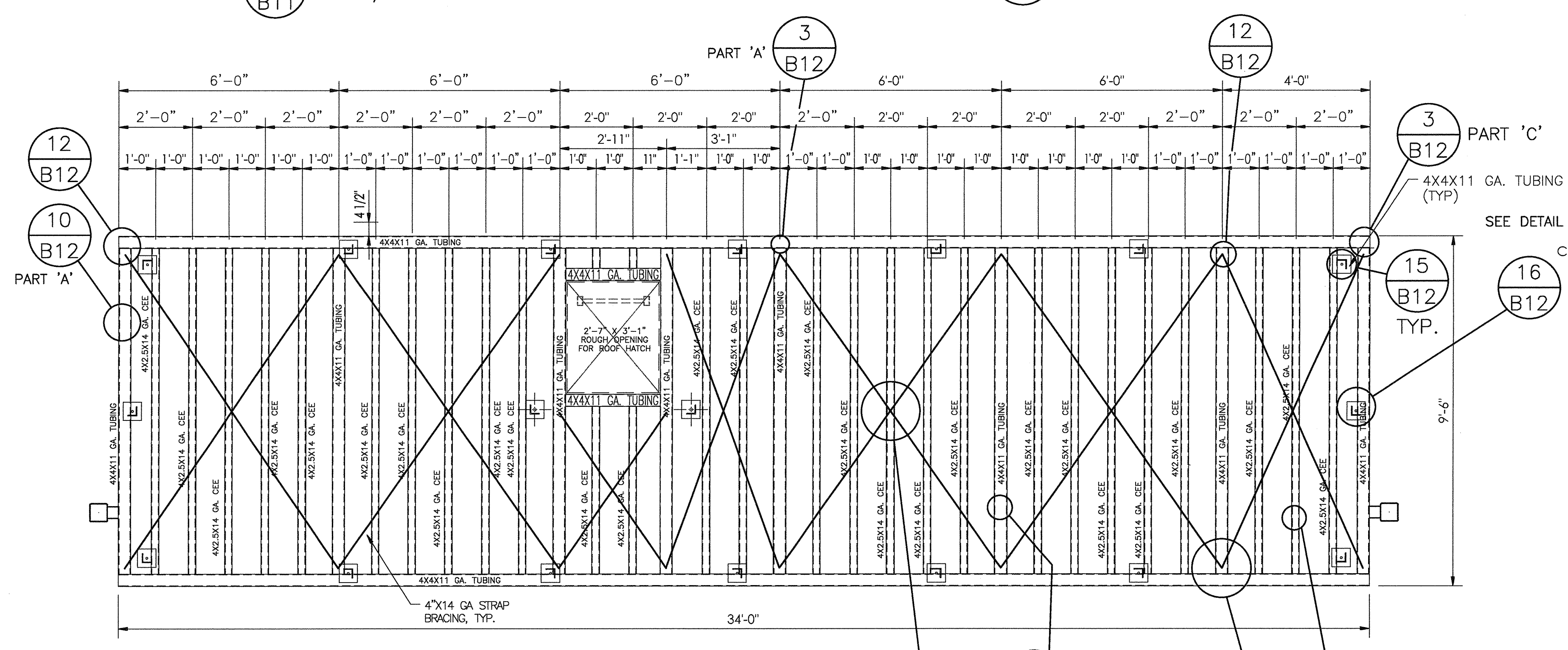
STEEL PROPERTIES			
TUBE	4X4X1/8"	A 500 Grade A or B	45ksi
ANGLE	2X2X1/8"	A36	50ksi
CEES	4"X2 1/2"X14ga.	A1011 cs Type B	33ksi
FLAT STRAP	4"X14ga.	A1011 cs Type B	33ksi
ROOF PLATE	1/8"	A1011 cs Type B	33ksi
FRONT TUBE	6X4X1/8"	A 500 Grade A or B	45ksi



1 B11 **PRESSBOX: FRONT ELEVATION STRUCTURAL LAYOUT**
SCALE: 3/8" = 1'-0"

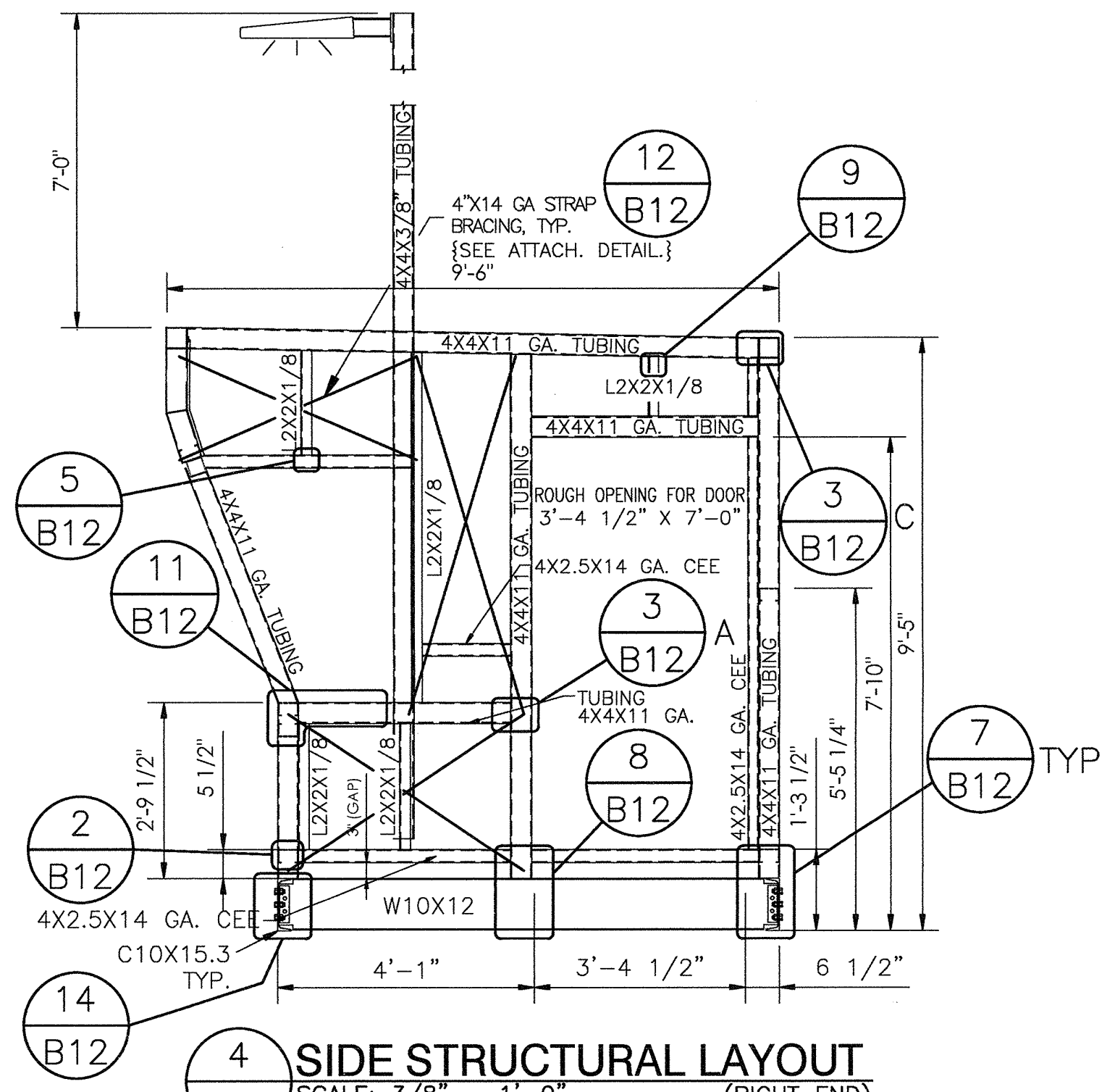


2 B11 **PRESSBOX: BACK ELEVATION STRUCTURAL LAYOUT**
SCALE: 3/8" = 1'-0"

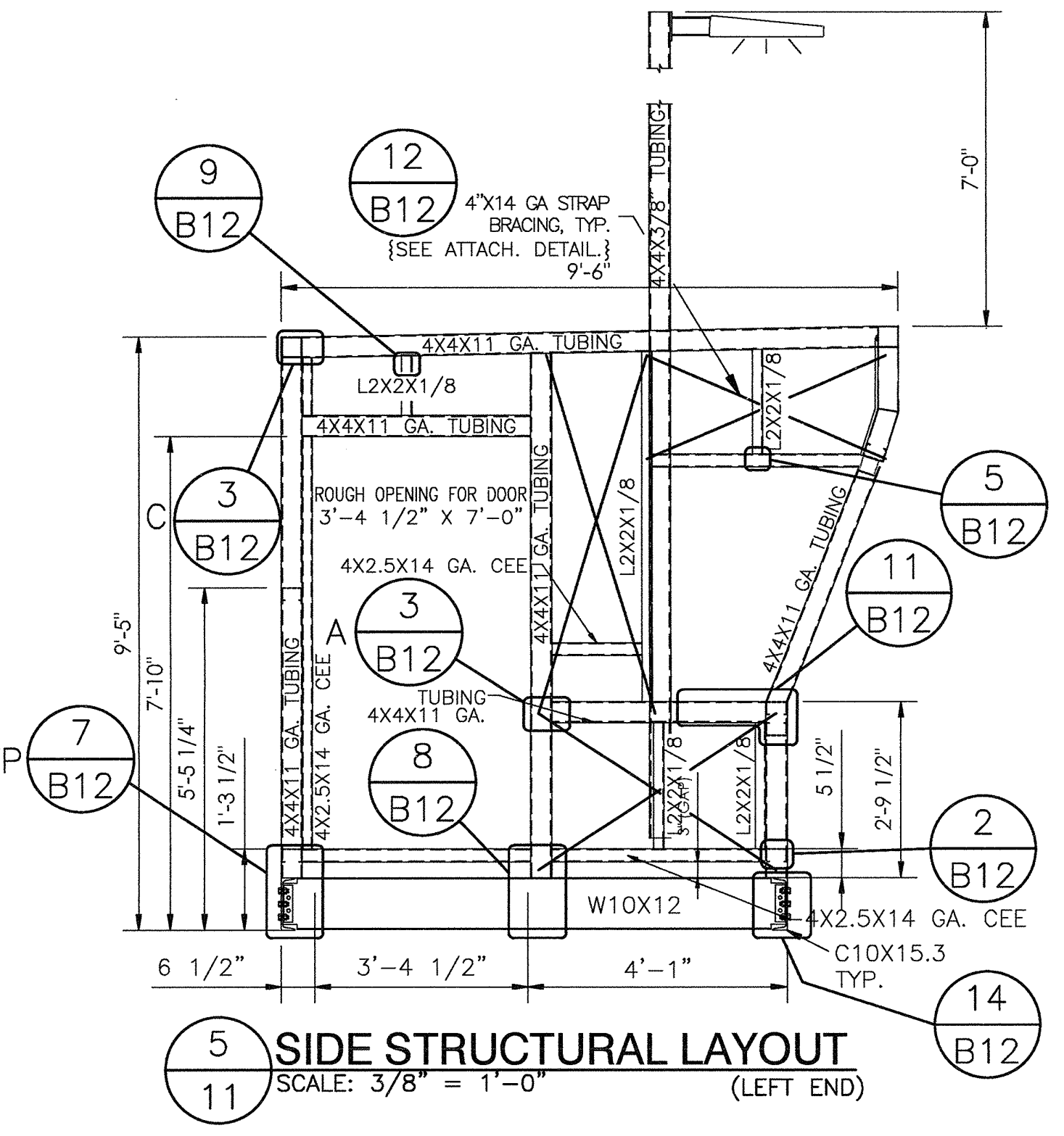


3 B11 **PRESSBOX: ROOF STRUCTURE LAYOUT**
SCALE: 3/8" = 1'-0"

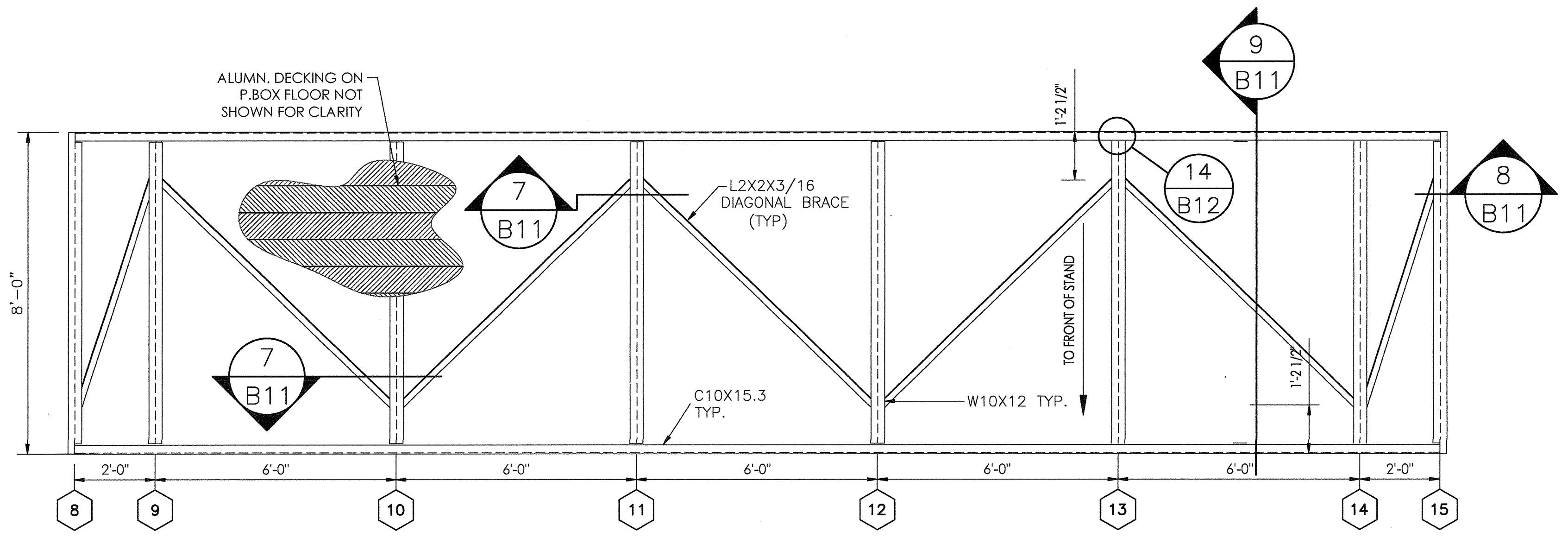
12 B12 10 B12 PART 'C' 12 B12 10 B12 PART 'B'



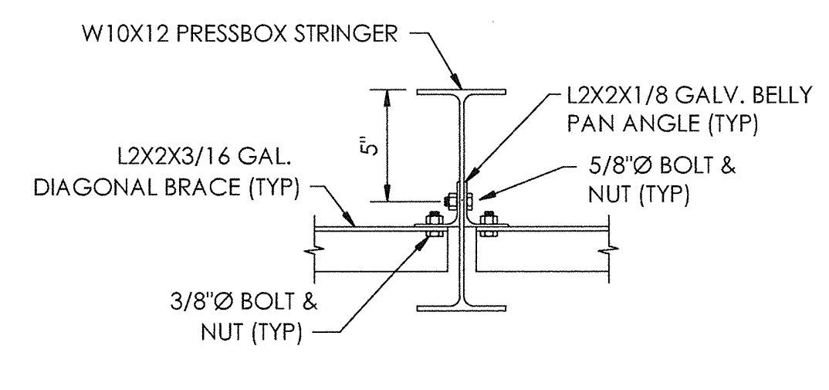
4 B11 **SIDE STRUCTURAL LAYOUT**
SCALE: 3/8" = 1'-0" (RIGHT END)



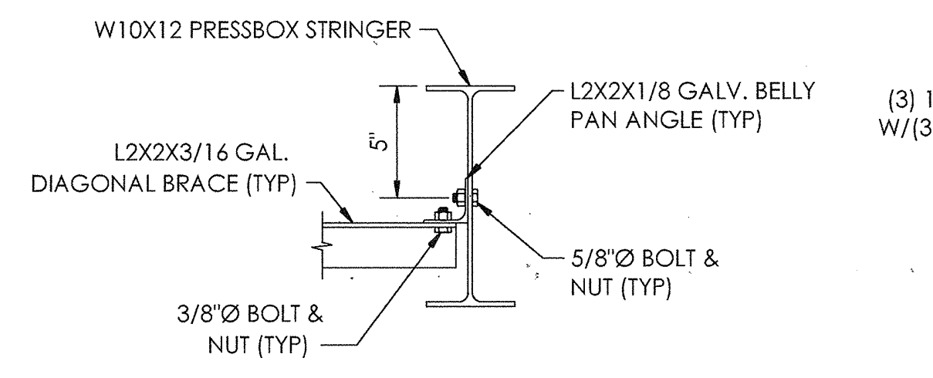
5 11 **SIDE STRUCTURAL LAYOUT**
SCALE: 3/8" = 1'-0" (LEFT END)



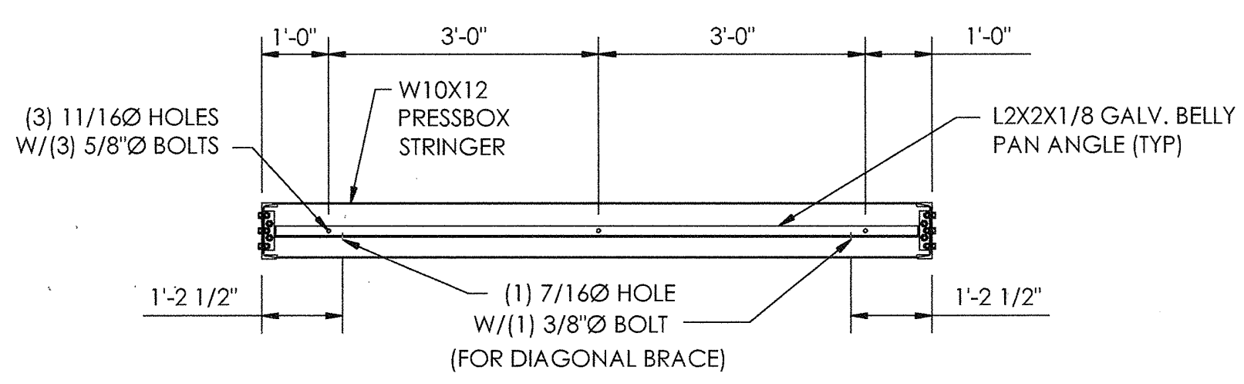
6 B11 **PRESSBOX: BASE STRUCTURE LAYOUT**
SCALE: 3/8" = 1'-0"


W10X12 PRESSBOX STRINGER
L2X2X1/8 GALV. BELLY PAN ANGLE (TYP)
L2X2X3/16 GAL. DIAGONAL BRACE (TYP)
5/8"Ø BOLT & NUT (TYP)
5"
3/8"Ø BOLT & NUT (TYP)

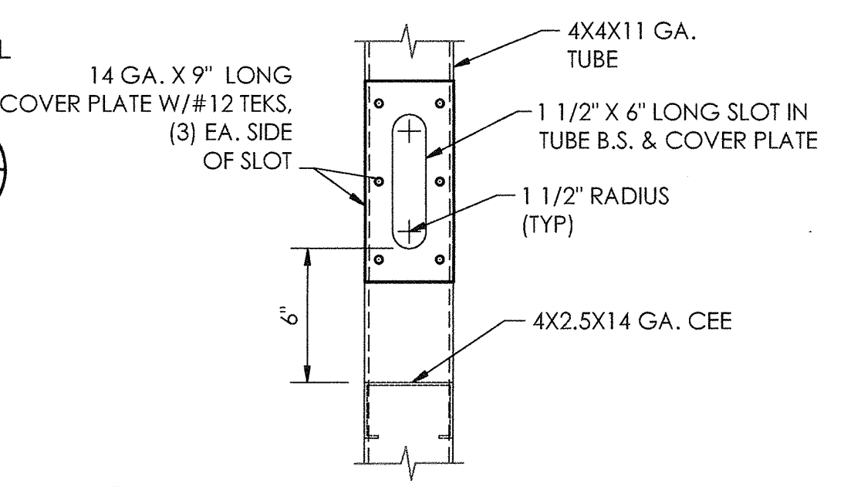
7 B11 **BELLY PAN ATTACHMENT**
NOT TO SCALE


W10X12 PRESSBOX STRINGER
L2X2X1/8 GALV. BELLY PAN ANGLE (TYP)
L2X2X3/16 GAL. DIAGONAL BRACE (TYP)
5"
5/8"Ø BOLT & NUT (TYP)
3/8"Ø BOLT & NUT (TYP)

8 B11 **BELLY PAN ATTACHMENT**
NOT TO SCALE

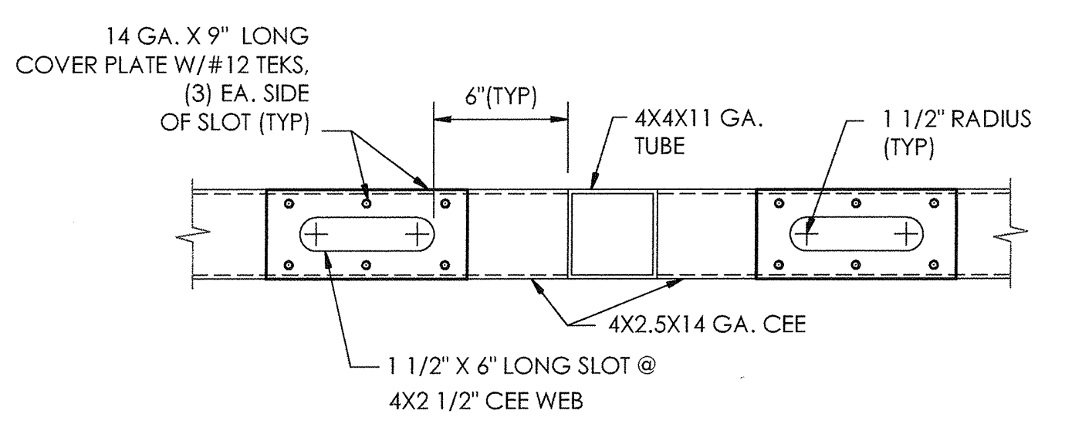

1'-0"
3'-0"
3'-0"
1'-0"
(3) 11/16Ø HOLES W/(3) 5/8"Ø BOLTS
W10X12 PRESSBOX STRINGER
L2X2X1/8 GALV. BELLY PAN ANGLE (TYP)
1'-2 1/2"
(1) 7/16Ø HOLE W/(1) 3/8"Ø BOLT (FOR DIAGONAL BRACE)
1'-2 1/2"

9 B11 **BELLY PAN ANGLE ATTACHMENT**
NOT TO SCALE


4X4X11 GA. TUBE
14 GA. X 9" LONG COVER PLATE W/#12 TEKS, (3) EA. SIDE OF SLOT
1 1/2" X 6" LONG SLOT IN TUBE B.S. & COVER PLATE
1 1/2" RADIUS (TYP)
6"
4X2.5X14 GA. CEE

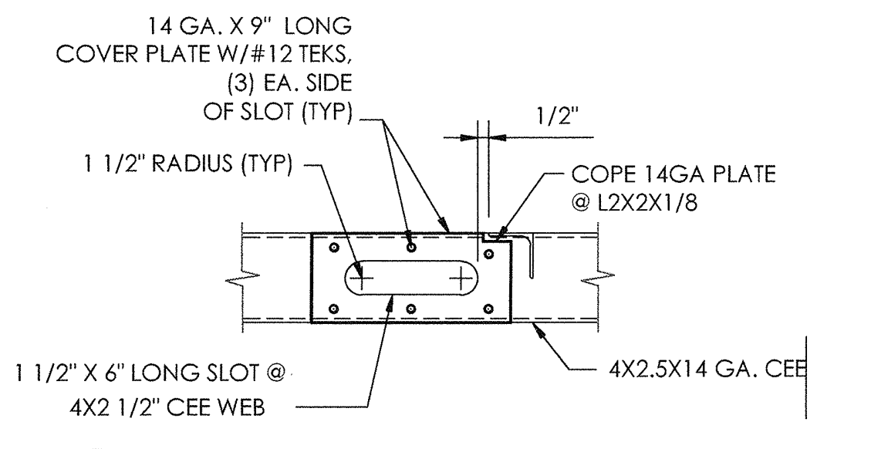
11 B11 **CONDUIT SLOT DETAIL #1**
NOT TO SCALE

THIS DETAIL ONLY USED AS NEEDED


14 GA. X 9" LONG COVER PLATE W/#12 TEKS, (3) EA. SIDE OF SLOT (TYP)
6"(TYP)
4X4X11 GA. TUBE
1 1/2" RADIUS (TYP)
4X2.5X14 GA. CEE
1 1/2" X 6" LONG SLOT @ 4X2 1/2" CEE WEB

12 B11 **CONDUIT SLOT DETAIL #2**
NOT TO SCALE

THIS DETAIL ONLY USED AS NEEDED


14 GA. X 9" LONG COVER PLATE W/#12 TEKS, (3) EA. SIDE OF SLOT (TYP)
1/2"
1 1/2" RADIUS (TYP)
COPE 14GA PLATE @ L2X2X1/8
1 1/2" X 6" LONG SLOT @ 4X2 1/2" CEE WEB
4X2.5X14 GA. CEE

13 B11 **CONDUIT SLOT DETAIL #3**
NOT TO SCALE

THIS DETAIL ONLY USED AS NEEDED

A# 03-117117
AC N.N. FLS BG SS
DATE FEB 0 3 2017
FILE # 19-H10

1 / 10 — DETAIL NUMBER / SHEET SHOWN ON

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
PRESSBOX FRAMING LAYOUT (HOME)
8'-0" X 34'-0" PRESSBOX

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	ADDED SECURITY SHUTTERS
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	ADDED LIGHT POLES

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

SHEET B-11 OF B-30

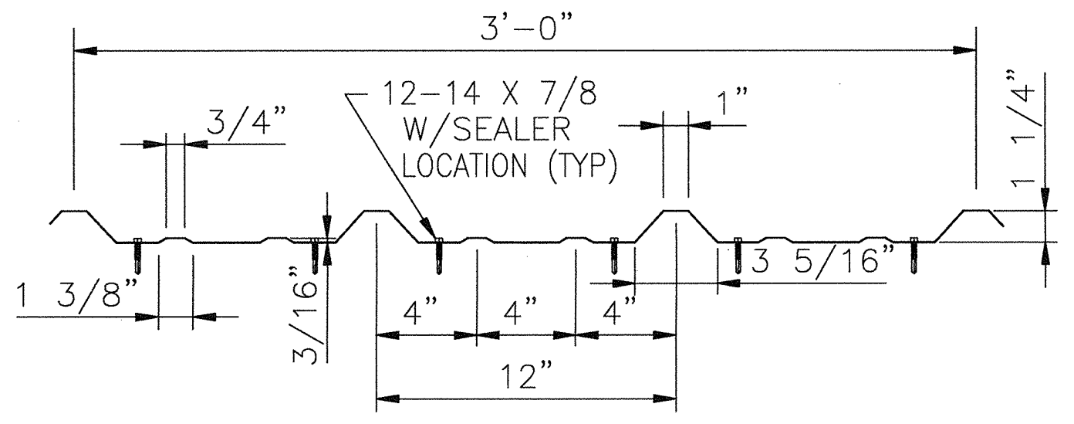
22" X 34" (11x17 = 1/2 indicated scale)

A# 03-117117

AC N.N. FLS ________ SS ________

DATE FEB 0 3 2017

FILE # 19-H10



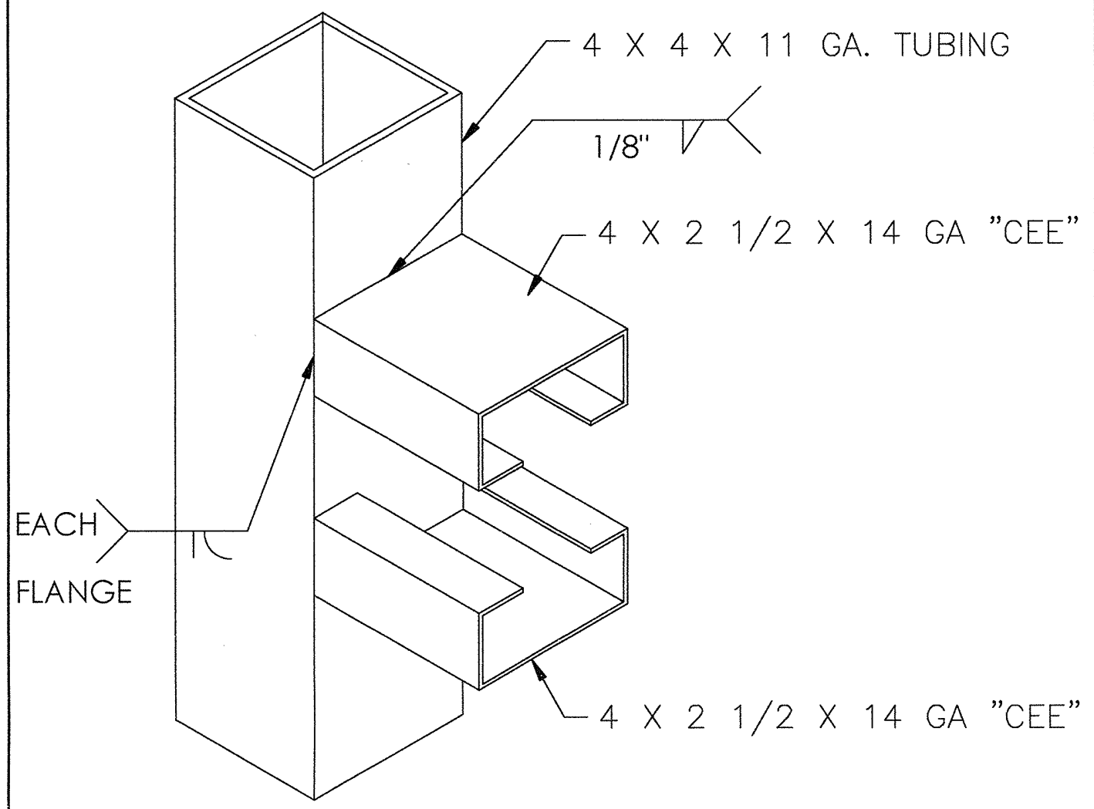
SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
26	60*	0.94	0.0302	0.0511	1.8366	0.0369	0.0372	1.3373

* F is 80-ksi reduced to 60-ksi in accordance with the 2001 Edition of the North American Specification For Design of Cold-Formed Steel Structural Members - A2.3.2.

ASTM A 792-83 AZ50 Grade E

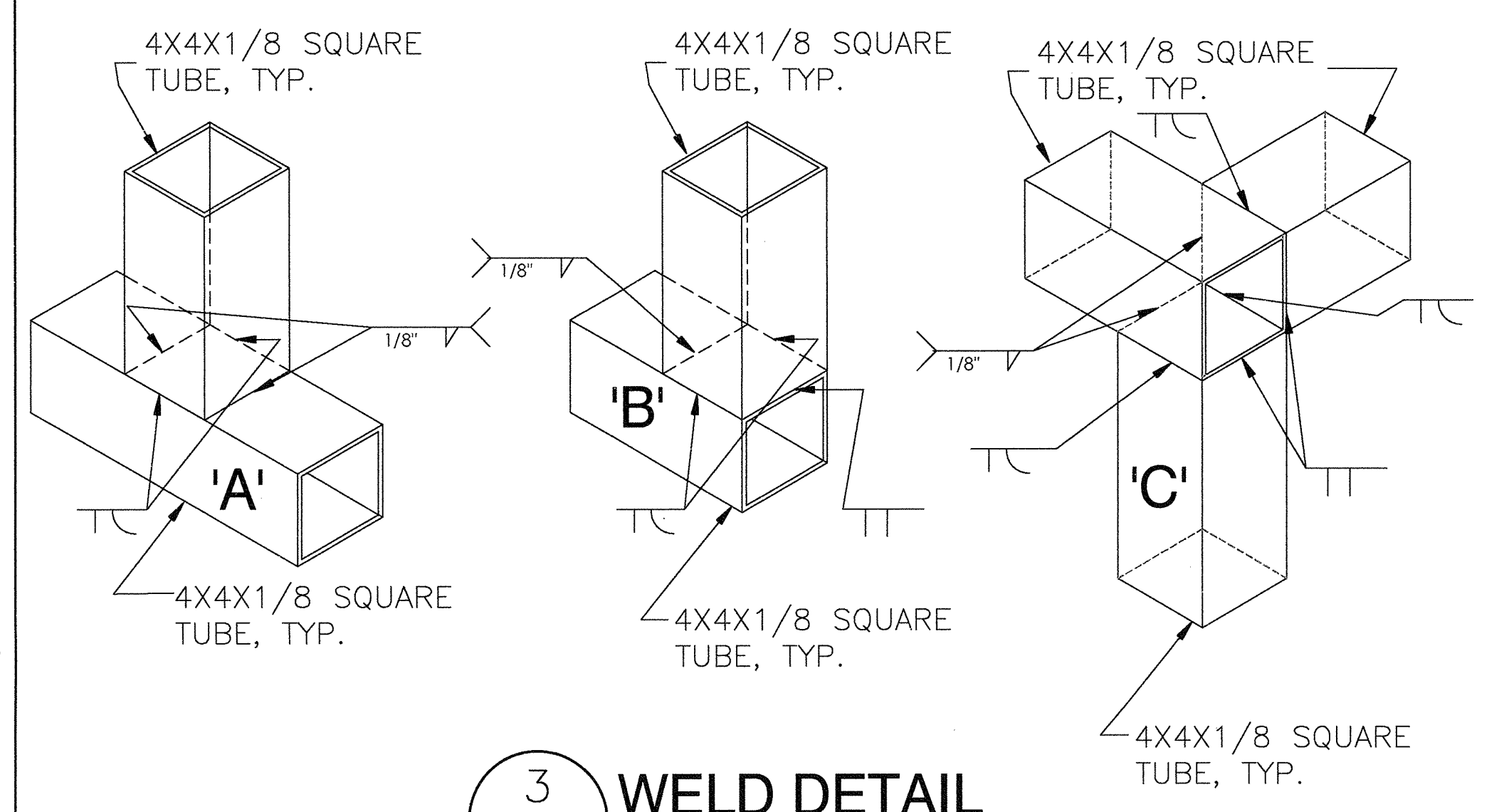
1/B12 MBCI "R" PANEL DETAIL

NOT TO SCALE



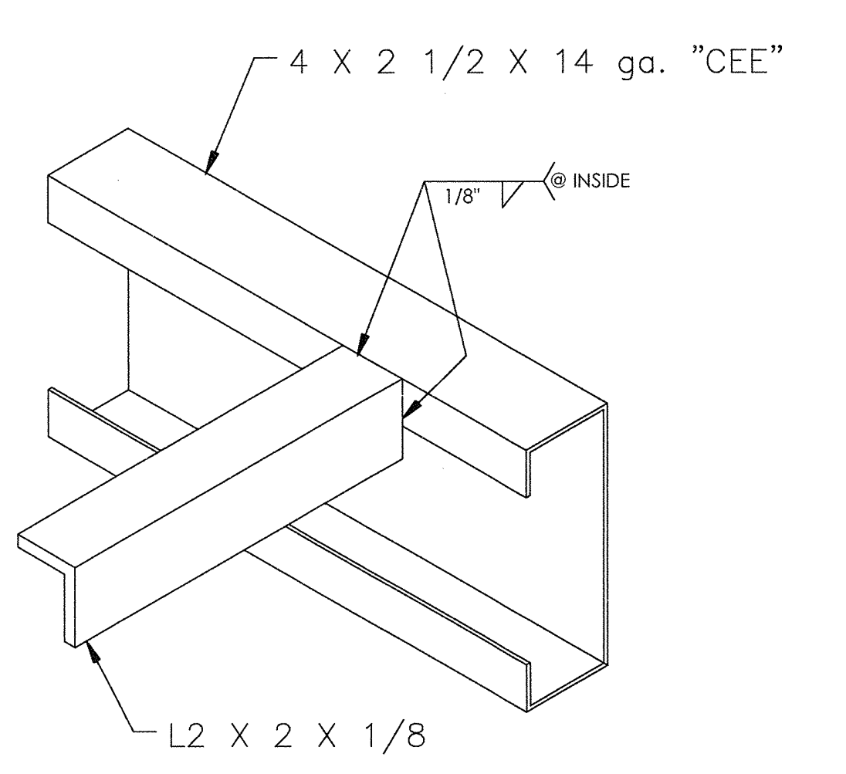
2/B12 WELD DETAIL

NOT TO SCALE


4X4X1/8 SQUARE TUBE, TYP.
4X4X1/8 SQUARE TUBE, TYP.
4X4X1/8 SQUARE TUBE, TYP.
1/8"
'A'
4X4X1/8 SQUARE TUBE, TYP.
1/8"
'B'
4X4X1/8 SQUARE TUBE, TYP.
1/8"
'C'
4X4X1/8 SQUARE TUBE, TYP.

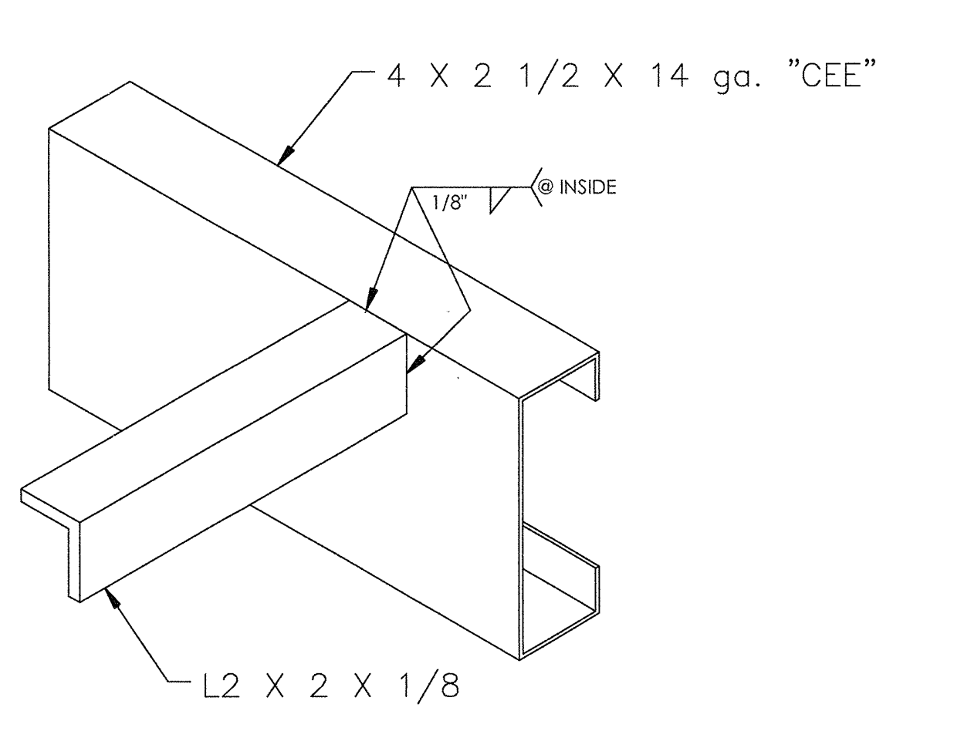
3/B12 WELD DETAIL

NOT TO SCALE



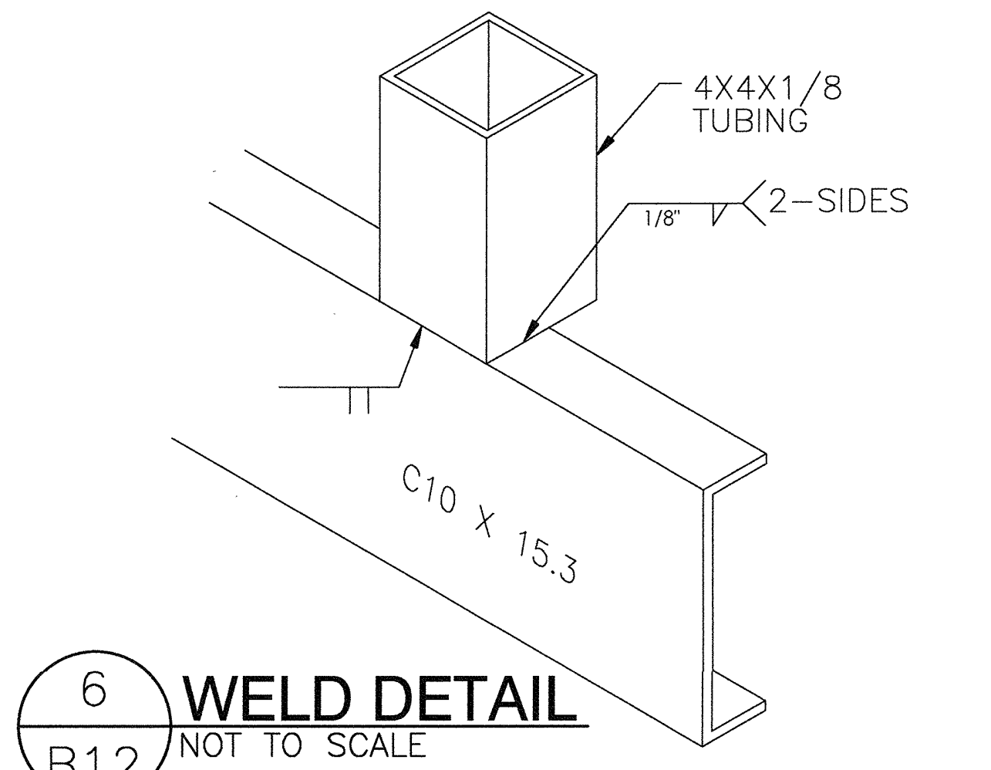
4/B12 WELD DETAIL

NOT TO SCALE



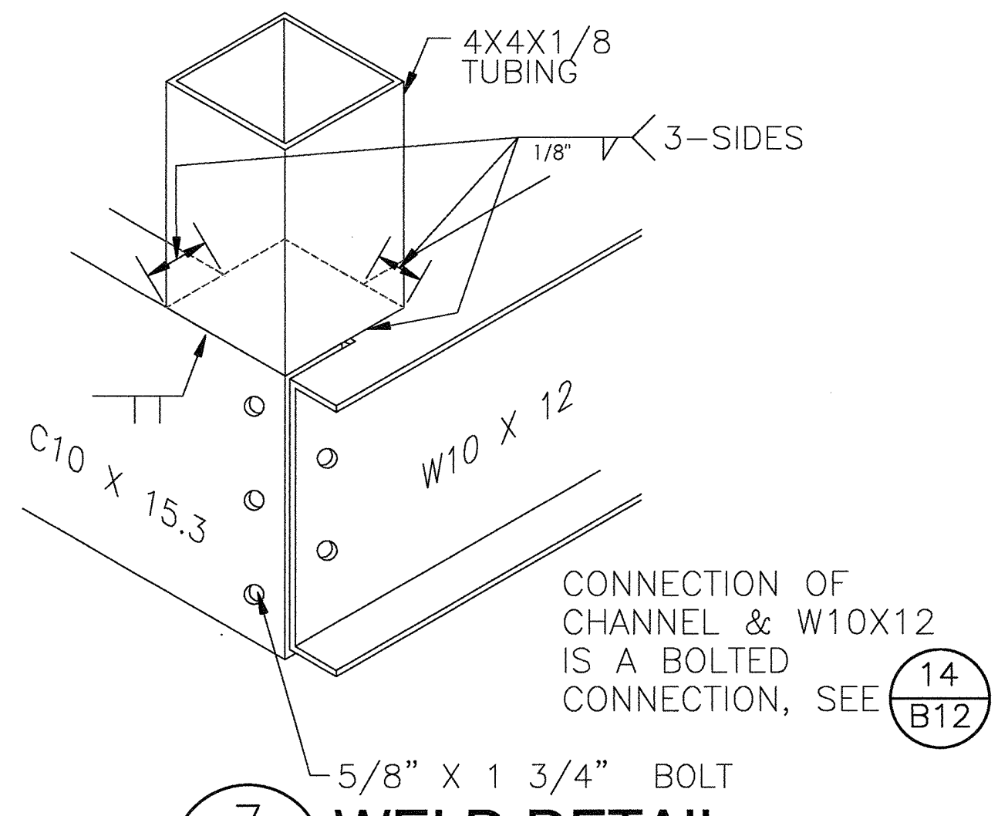
5/B12 WELD DETAIL

NOT TO SCALE



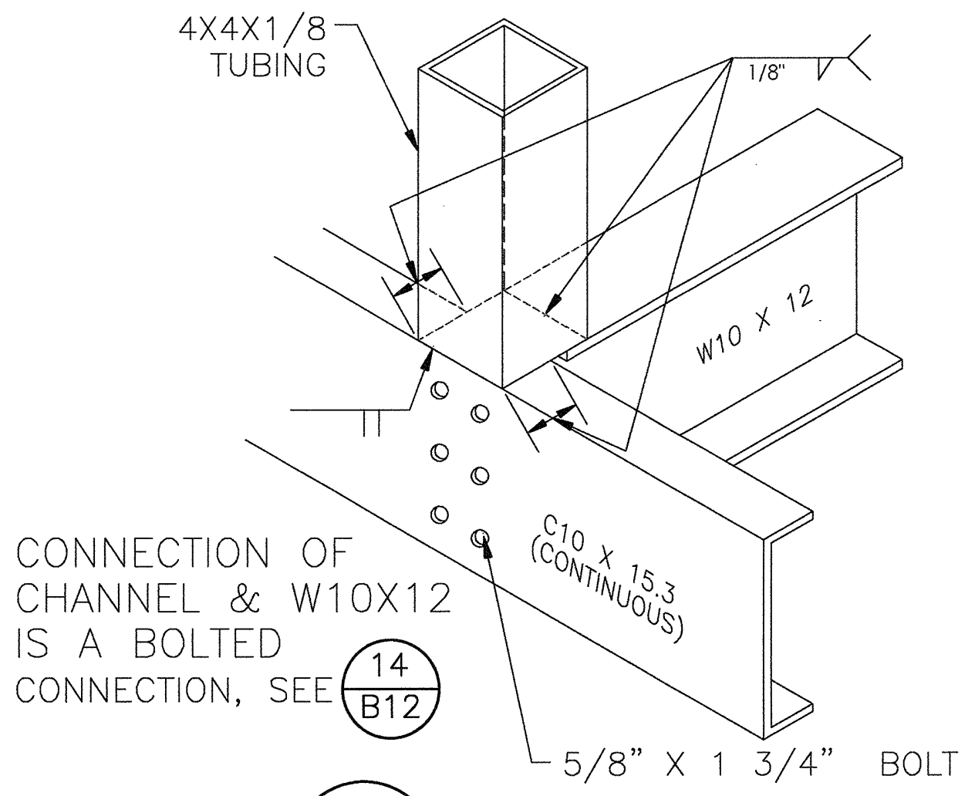
6/B12 WELD DETAIL

NOT TO SCALE


4X4X1/8
TUBING
1/8"
3-SIDES
C10 X 15.3
W10 X 12
CONNECTION OF CHANNEL & W10X12 IS A BOLTED CONNECTION, SEE 14/B12
5/8" X 1 3/4" BOLT

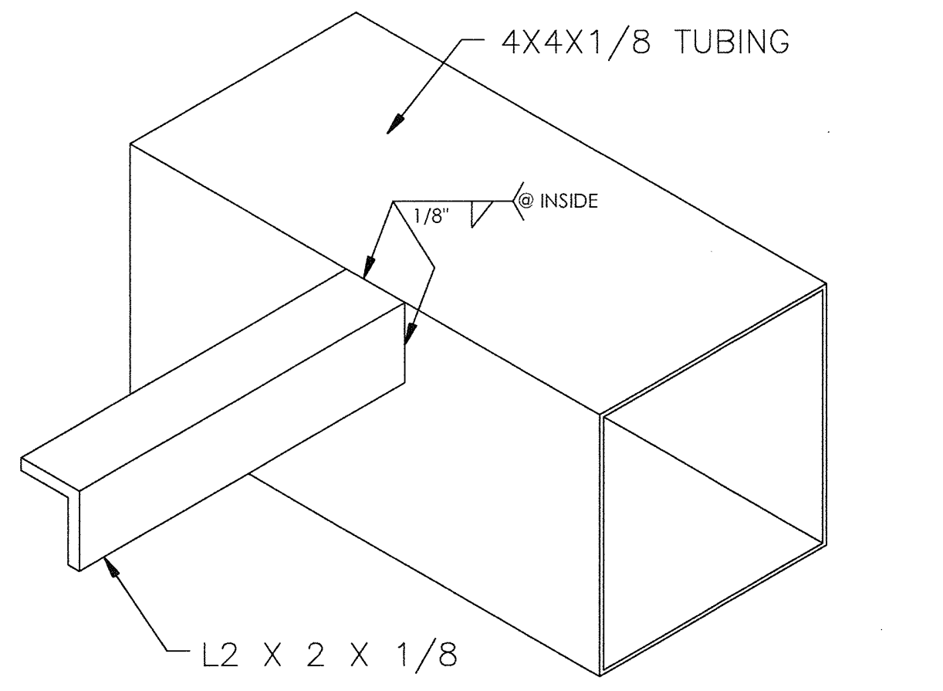
7/B12 WELD DETAIL

NOT TO SCALE



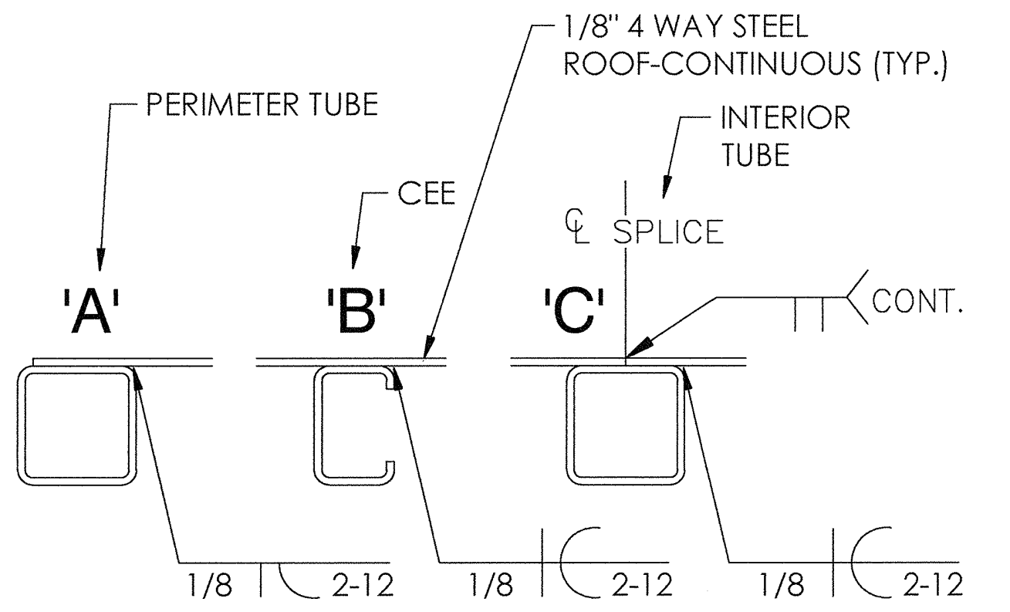
8/B12 WELD DETAIL

NOT TO SCALE



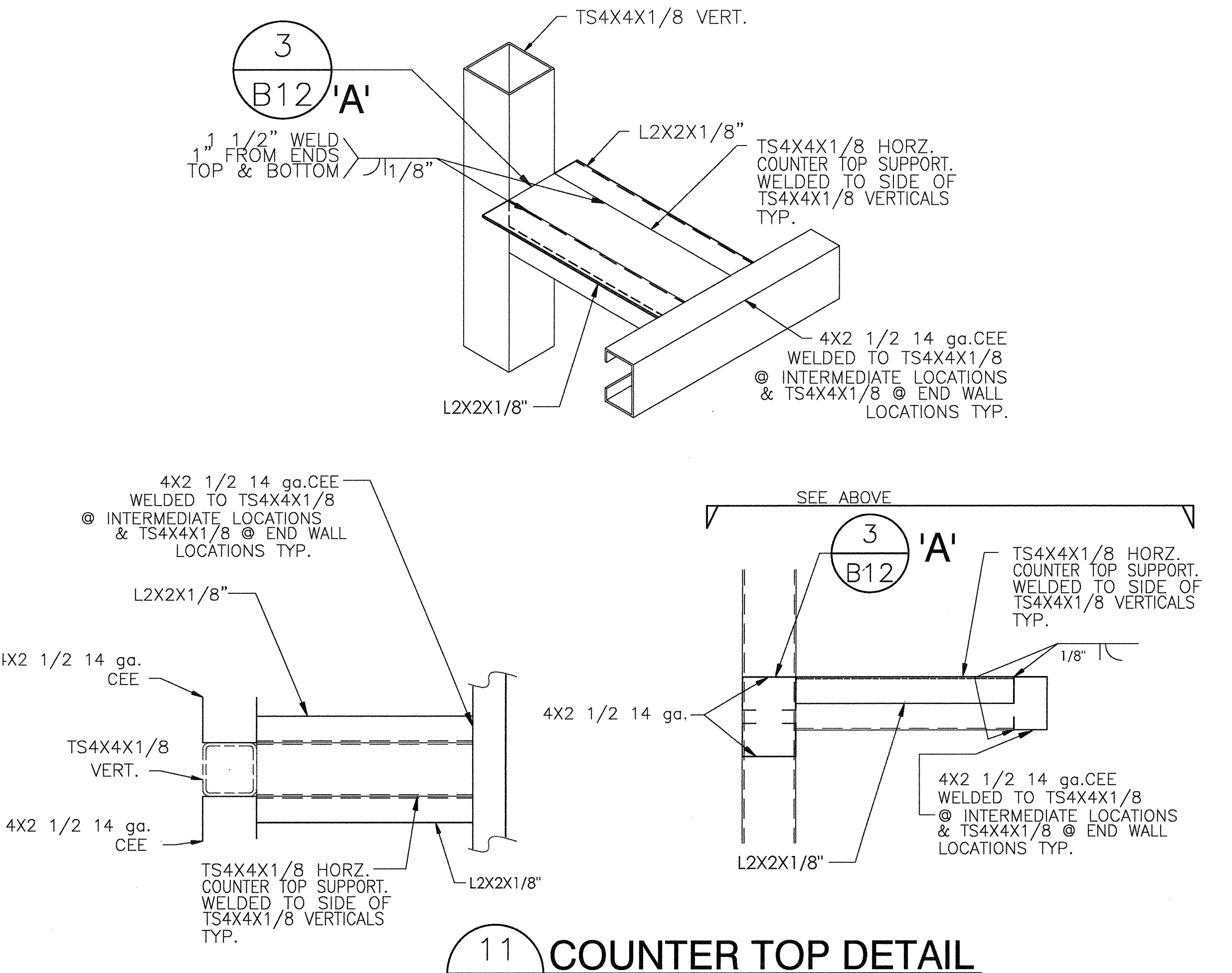
9/B12 WELD DETAIL

NOT TO SCALE



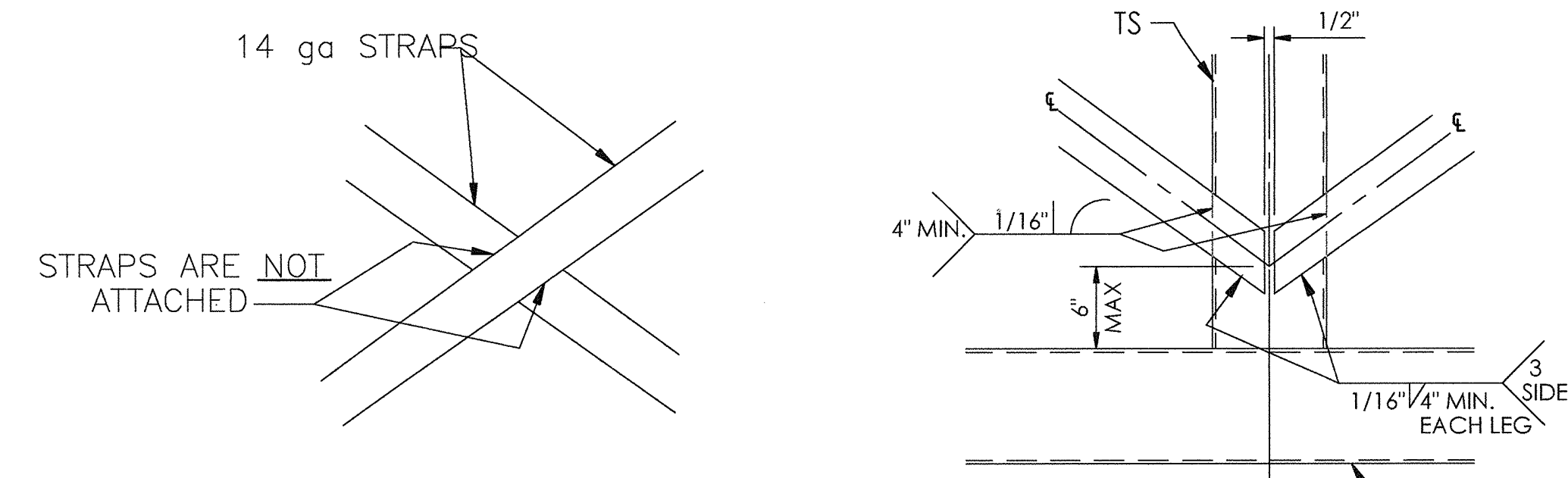
10/B12 STEEL ROOF TO TUBING

NOT TO SCALE


TS4X4X1/8 VERT.
3/B12 'A'
1 1/2" WELD 1" FROM ENDS TOP & BOTTOM
1/8"
L2X2X1/8"
TS4X4X1/8 HORZ. COUNTER TOP SUPPORT. WELDED TO SIDE OF TS4X4X1/8 VERTICALS TYP.
4X2 1/2 14 ga.CEE WELDED TO TS4X4X1/8 @ INTERMEDIATE LOCATIONS & TS4X4X1/8 @ END WALL LOCATIONS TYP.
L2X2X1/8"
4X2 1/2 14 ga.CEE WELDED TO TS4X4X1/8 @ INTERMEDIATE LOCATIONS & TS4X4X1/8 @ END WALL LOCATIONS TYP.
L2X2X1/8"
4X2 1/2 14 ga. CEE
TS4X4X1/8 VERT.
4X2 1/2 14 ga. CEE
TS4X4X1/8 HORZ. COUNTER TOP SUPPORT. WELDED TO SIDE OF TS4X4X1/8 VERTICALS TYP.
L2X2X1/8"
SEE ABOVE
3/B12 'A'
TS4X4X1/8 HORZ. COUNTER TOP SUPPORT. WELDED TO SIDE OF TS4X4X1/8 VERTICALS TYP.
1/8"
4X2 1/2 14 ga.
4X2 1/2 14 ga.CEE WELDED TO TS4X4X1/8 @ INTERMEDIATE LOCATIONS & TS4X4X1/8 @ END WALL LOCATIONS TYP.
L2X2X1/8"

11/B12 COUNTER TOP DETAIL

NOT TO SCALE



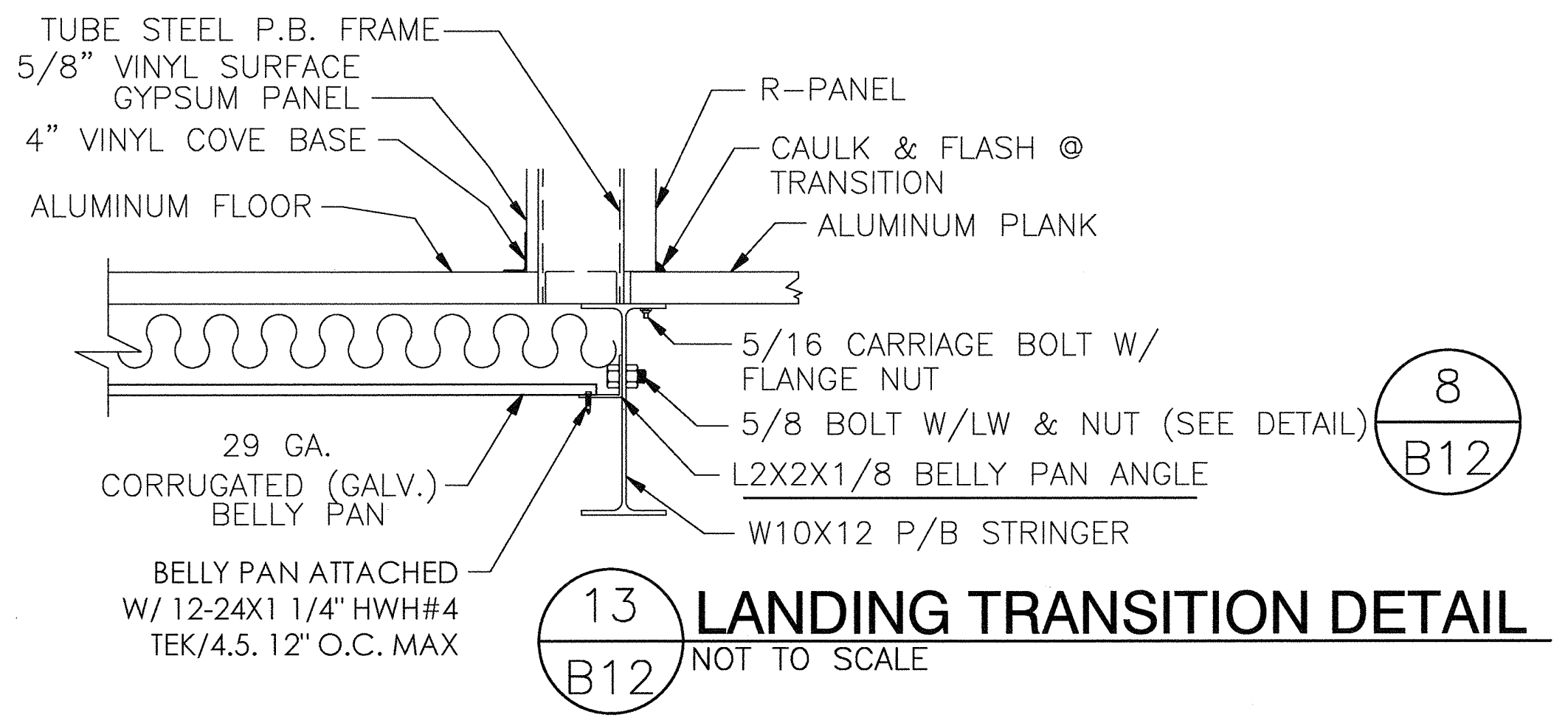
NOTE: STRAP BRACING @ ROOF STRUCTURE LOC. SHALL BE ATTACHED TO UNDER SIDE OF TUBING.

12/B12 TYP. STRAP CONN. DETAIL

NOT TO SCALE

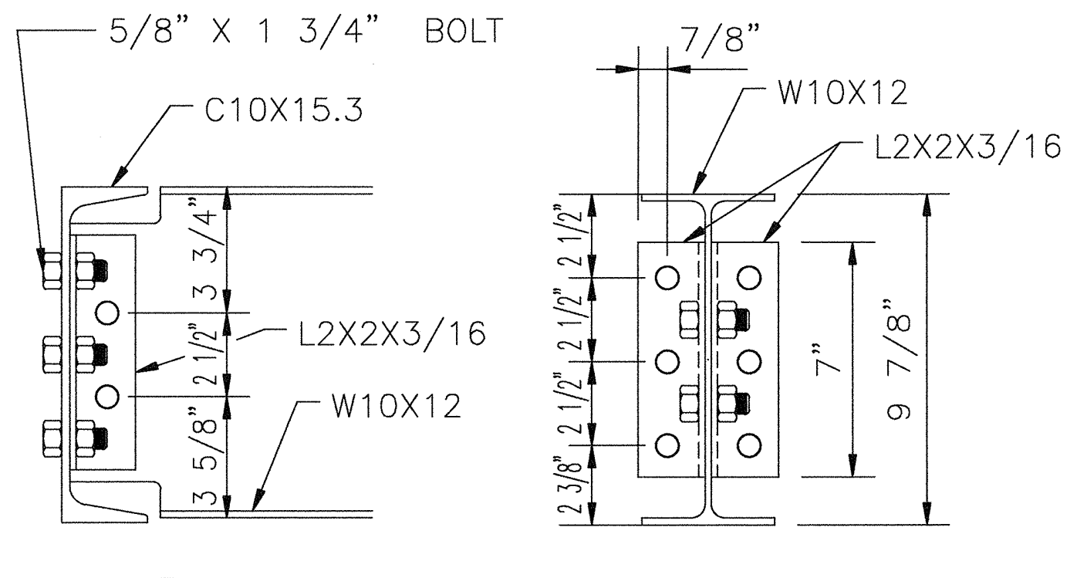
SECTION PROPERTIES							
PANEL SELECTION	WIDTH .in	YIELD ksi	WEIGHT psf	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
				Ixx (IN.4/FT.)	Sxx (IN.4/FT.)	Ixx (IN.3/FT.)	Sxx (KIP-IN.)
2.5" CORRUGATED, 29ga.	24	60	0.62	0.0050	0.0191	0.0050	0.0185

ASTM A792 GALVALUME


TUBE STEEL P.B. FRAME
5/8" VINYL SURFACE GYPSUM PANEL
4" VINYL COVE BASE
ALUMINUM FLOOR
R-PANEL
CAULK & FLASH @ TRANSITION
ALUMINUM PLANK
5/16 CARRIAGE BOLT W/ FLANGE NUT
5/8 BOLT W/LW & NUT (SEE DETAIL) 8/B12
L2X2X1/8 BELLY PAN ANGLE
W10X12 P/B STRINGER
29 GA. CORRUGATED (GALV.) BELLY PAN
BELLY PAN ATTACHED W/ 12-24X1 1/4" HWH#4 TEK/4.5. 12" O.C. MAX

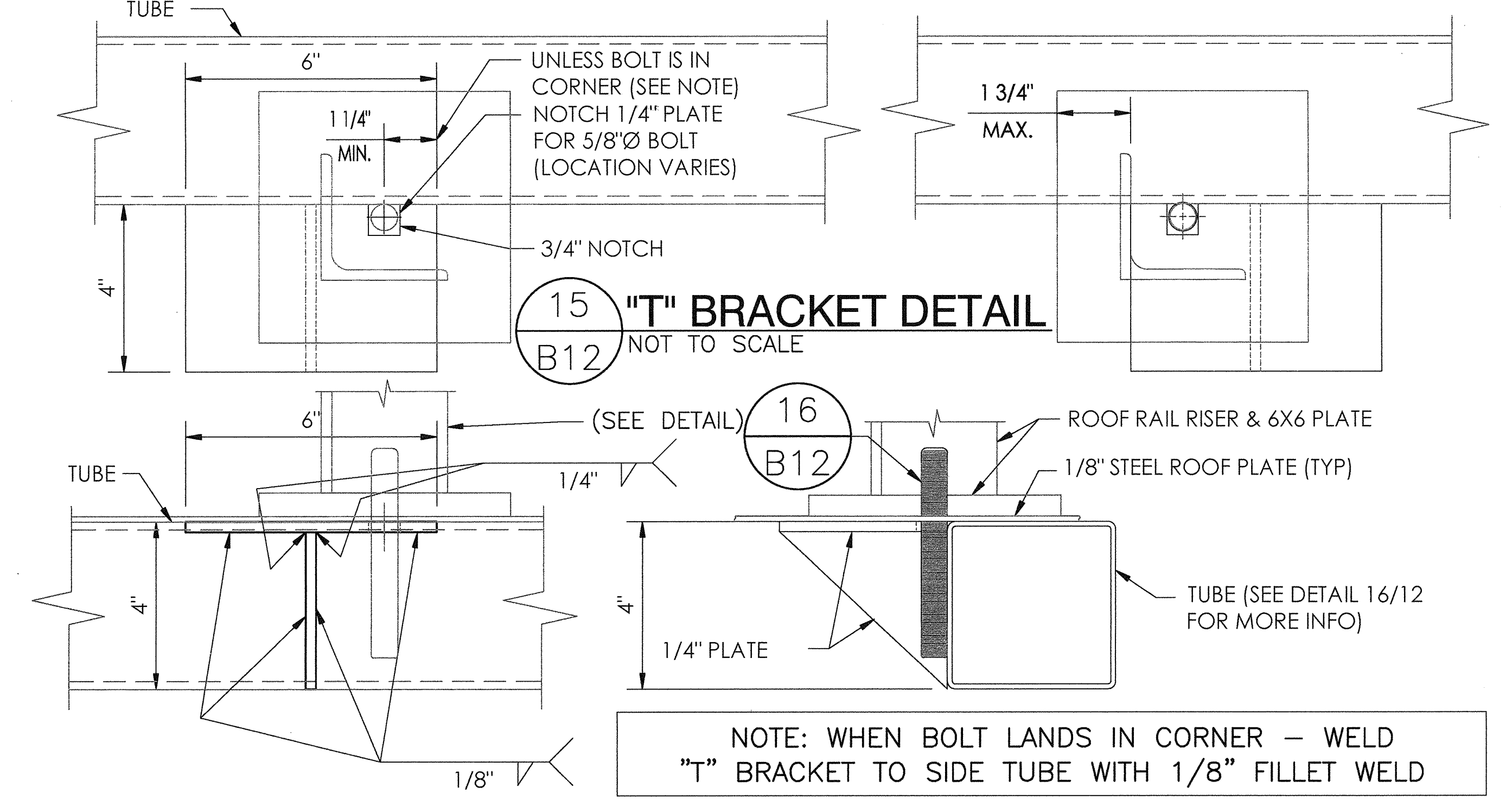
13/B12 LANDING TRANSITION DETAIL

NOT TO SCALE



14/B12 CHANNEL CONN. DETAIL

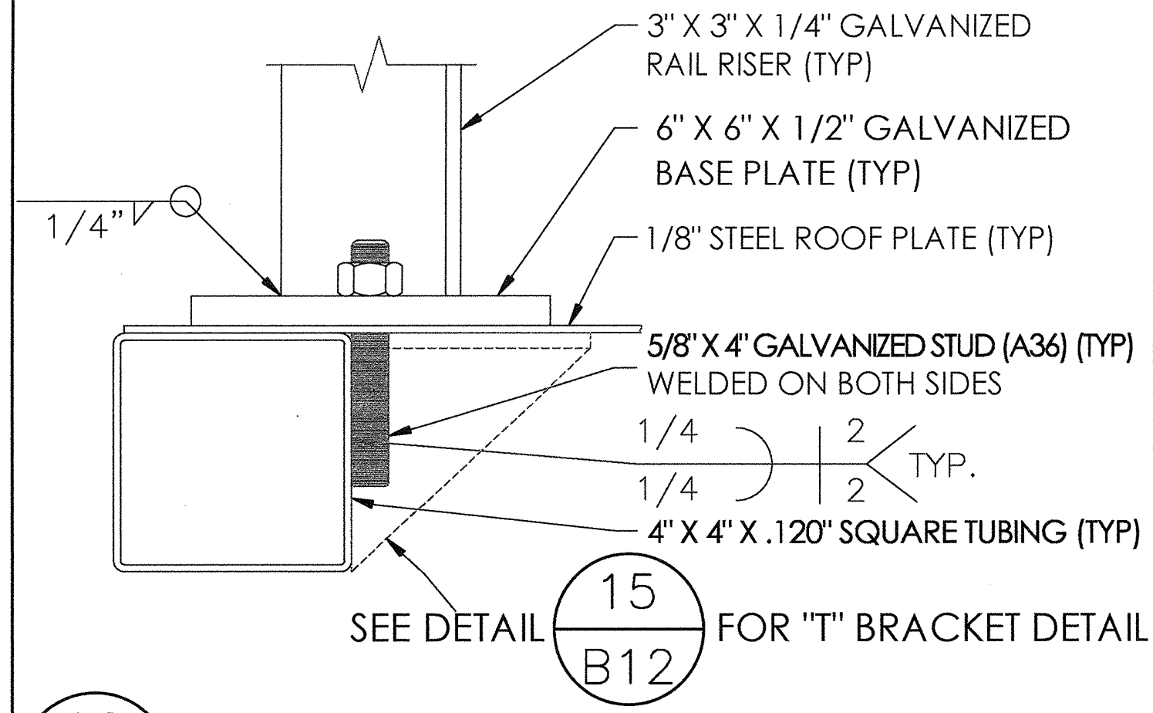
NOT TO SCALE


TUBE
6"
1 1/4" MIN.
UNLESS BOLT IS IN CORNER (SEE NOTE) NOTCH 1/4" PLATE FOR 5/8"Ø BOLT (LOCATION VARIES)
3/4" NOTCH
4"
1 3/4" MAX.
6"
TUBE
(SEE DETAIL) 16/B12
1/4"
4"
1/8"
ROOF RAIL RISER & 6X6 PLATE
1/8" STEEL ROOF PLATE (TYP)
TUBE (SEE DETAIL 16/12 FOR MORE INFO)
4"
1/4" PLATE

NOTE: WHEN BOLT LANDS IN CORNER – WELD "T" BRACKET TO SIDE TUBE WITH 1/8" FILLET WELD

15/B12 "T" BRACKET DETAIL

NOT TO SCALE


3" X 3" X 1/4" GALVANIZED RAIL RISER (TYP)
6" X 6" X 1/2" GALVANIZED BASE PLATE (TYP)
1/8" STEEL ROOF PLATE (TYP)
1/4"
5/8" X 4" GALVANIZED STUD (A36) (TYP) WELDED ON BOTH SIDES
1/4
1/4
2
2
TYP.
4" X 4" X .120" SQUARE TUBING (TYP)
SEE DETAIL 15/B12 FOR "T" BRACKET DETAIL

16/B12 ROOF RAIL ATTACHMENT

NOT TO SCALE

DETAIL NUMBER / SHEET SHOWN ON

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NO.S2386
EXPIRES 3-31-18

TYPE: PRESSBOX DETAIL SHEET (HOME)
8'-0" X 34'-0" PRESSBOX

TITLE: EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

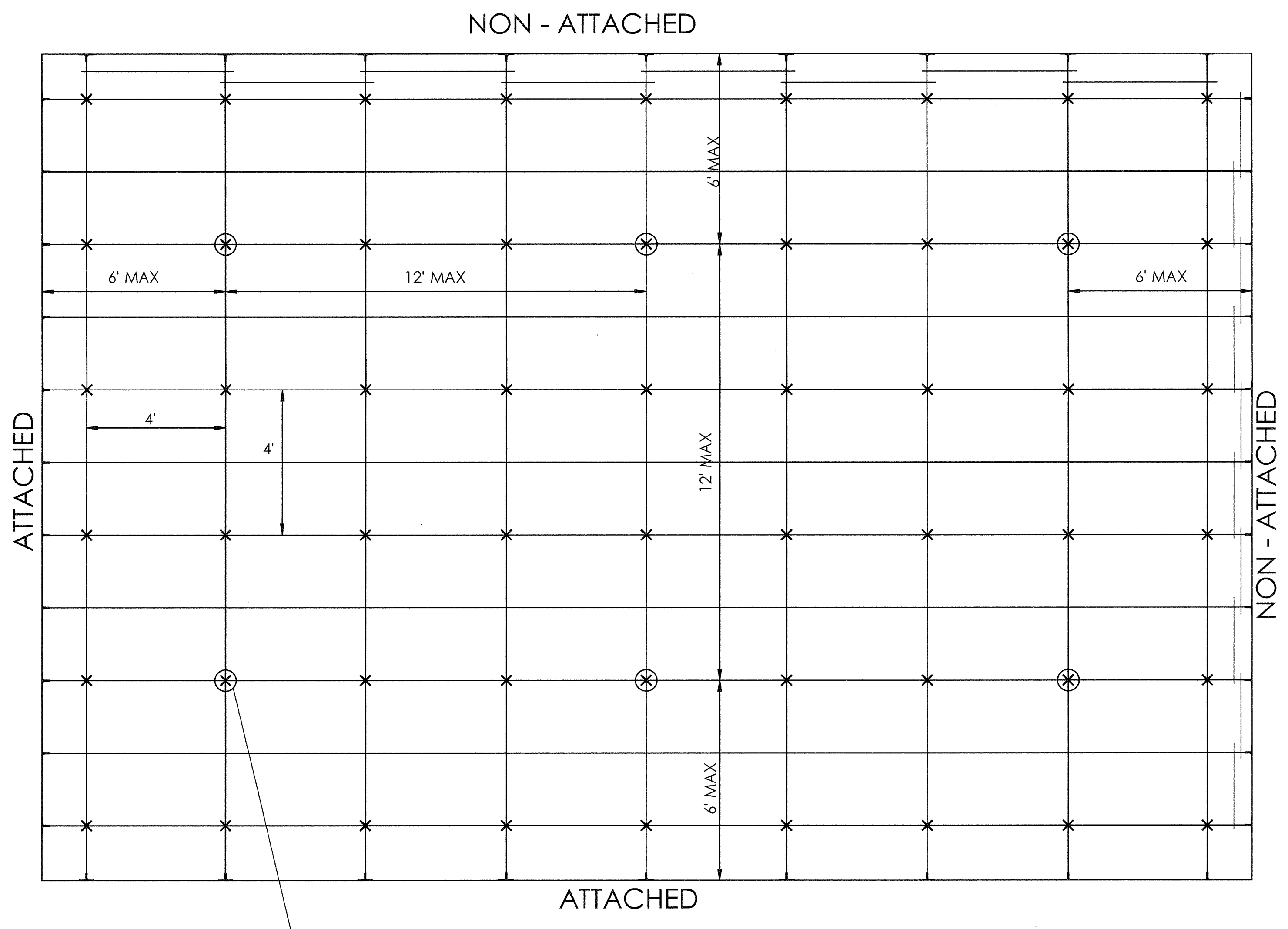
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER 14202

SHEET B-12 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



× 12 - GAUGE HANGER WIRE

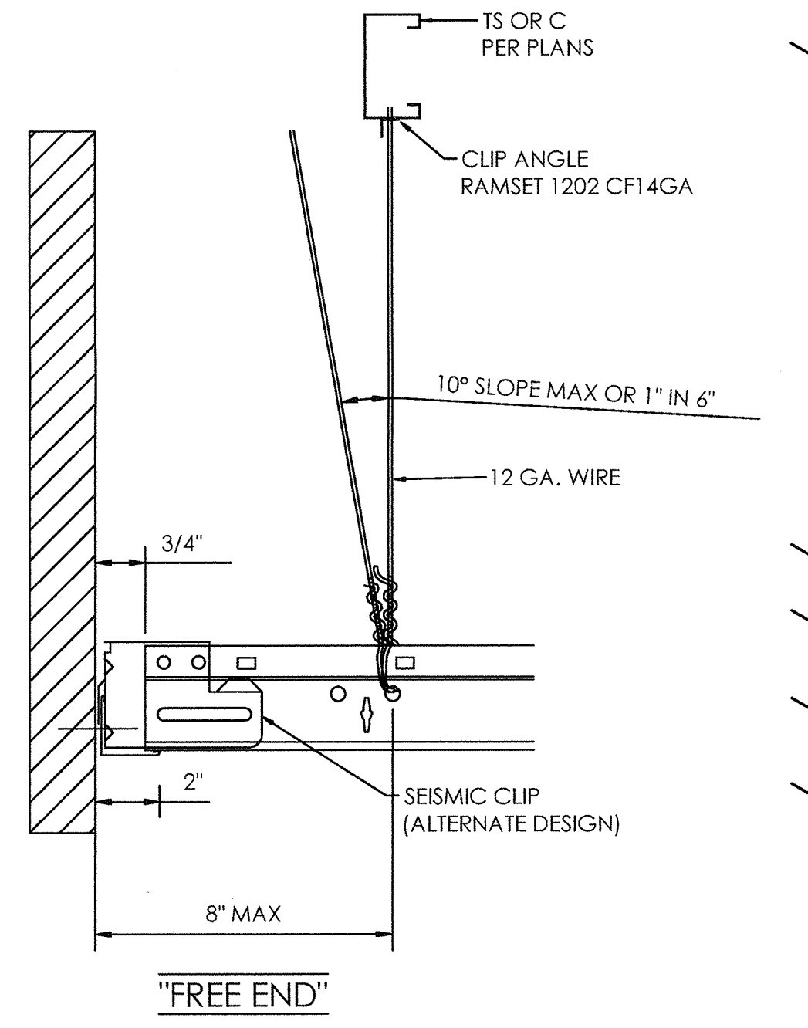
⊗ LATERAL BRACING LOCATION
(USE WHEN CEILING EXCEEDS 144 SQ. FT
OR 96 SQ. FT ON FIRE RATED ASSEMBLIES
WHEN WALLS ARE DIRECTLY ATTACHED TO ROOF FRAMING)

NOTES:

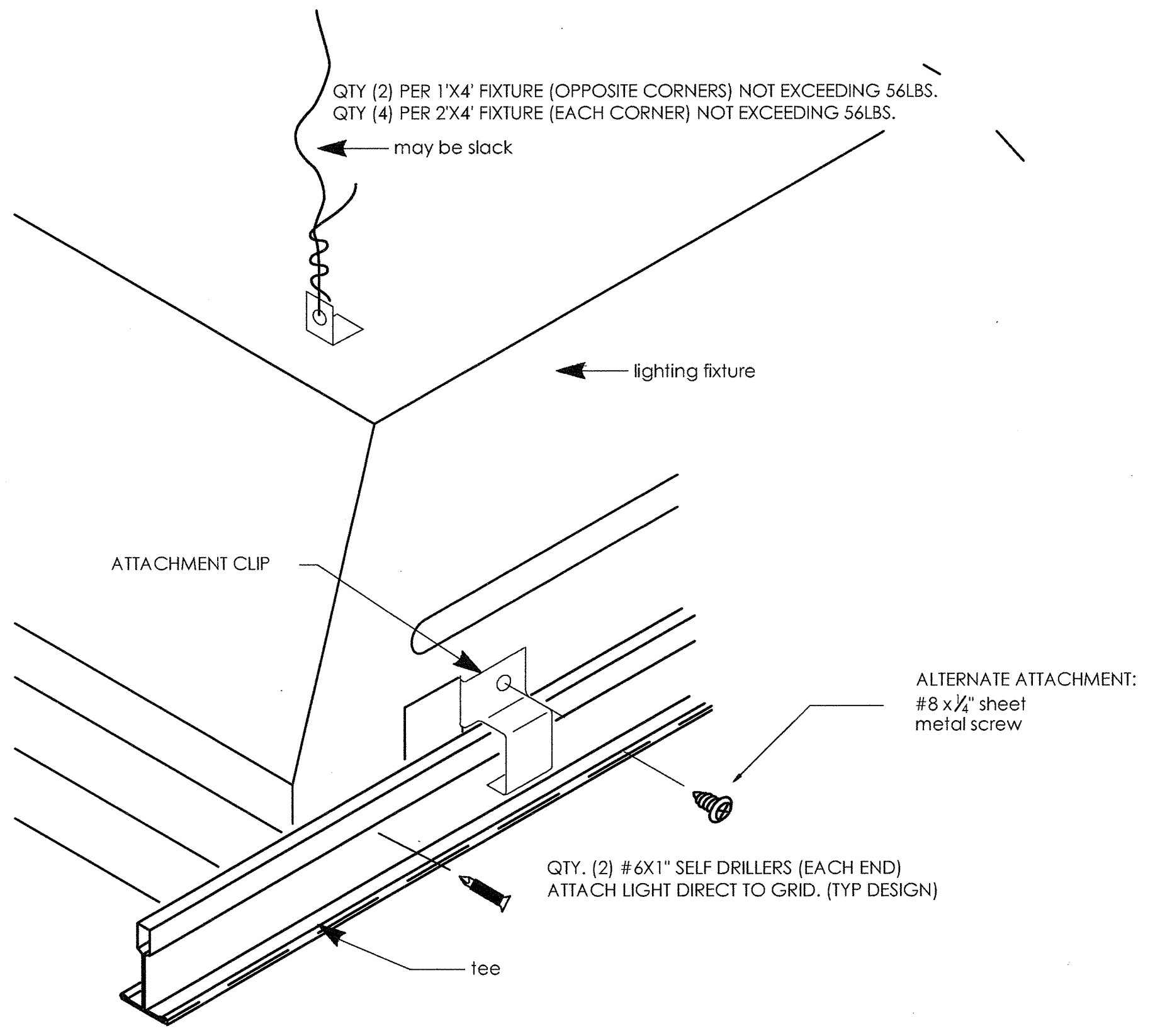
WALLS SHALL BE ATTACHED WITH 1/8" RIVETS OR SEISMIC CLIPS.
ADJACENT WALL SHALL REST ON 2" WALL ANGLE.

ADDITIONAL HANGER WIRES ARE REQUIRED AT ALL WALLS.
8" MAX DISTANCE FROM WALL OR 1/4" DISTANCES THE LENGTH OF THE MEMBER. WHICHEVER IS SHORTER.
WHEN GRID MEMBERS ARE 8" OR LESS, OMIT HANGER WIRE.

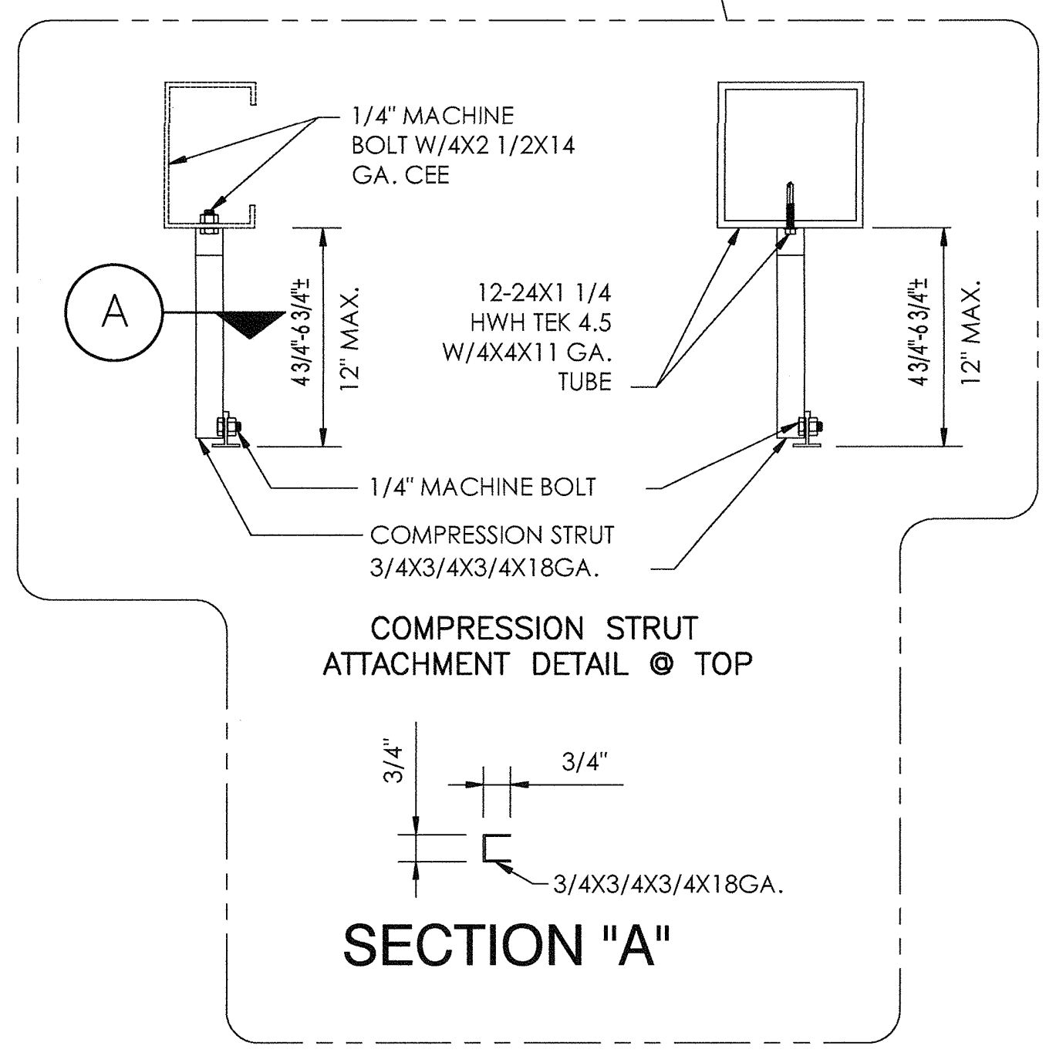
INTERCONNECTION BETWEEN THE RUNNERS AT WALL WHEN RUNNER EXCEEDS 12" @ UNATTACHED WALLS (TYP DESIGN)
SPACERS NOT REQUIRED WITH SEISMIC CLIPS.



"FREE END"


QTY (2) PER 1'X4' FIXTURE (OPPOSITE CORNERS) NOT EXCEEDING 56LBS.
QTY (4) PER 2'X4' FIXTURE (EACH CORNER) NOT EXCEEDING 56LBS.
may be slack
lighting fixture
ATTACHMENT CLIP
ALTERNATE ATTACHMENT:
#8 x¼" sheet
metal screw
QTY. (2) #6X1" SELF DRILLERS (EACH END)
ATTACH LIGHT DIRECT TO GRID. (TYP DESIGN)
tee

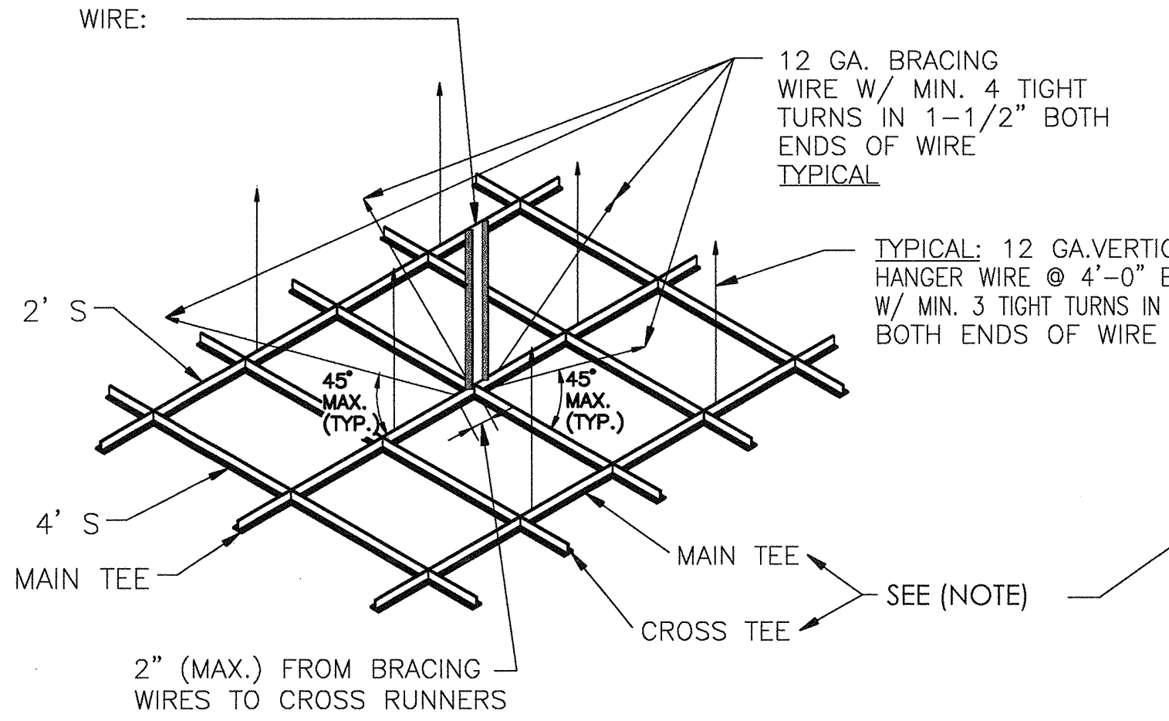
1/B13 CEILING DETAIL
NOT TO SCALE



SECTION "A"

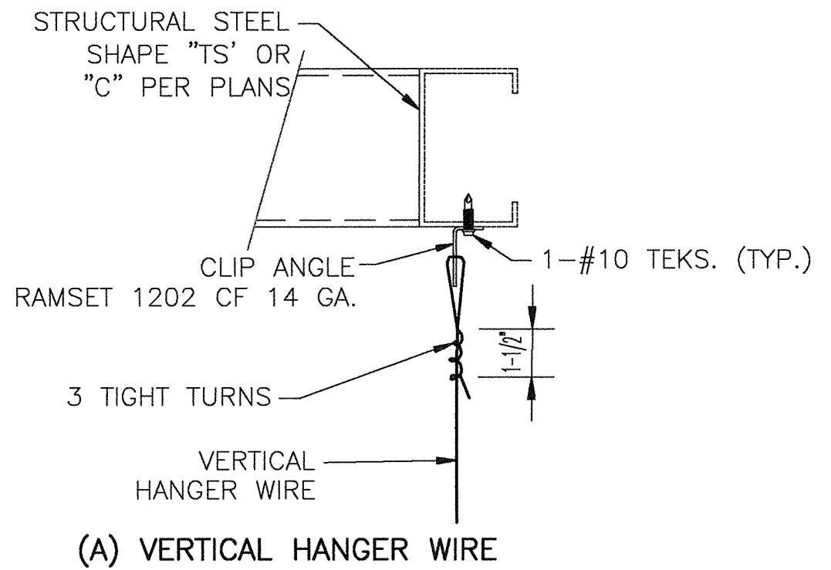
COMPRESSION STRUT REQUIRED ON CEILINGS WHEN CEILING EXCEEDS 144 SQ. FT.
AND WALL IS ATTACHED DIRECTLY TO ROOF\CEILINGS FRAMING

USE AS COMPRESSION STRUT TURN VERTICAL WHEN REQUIRED.
3/4x3/4x3/4x18g. COMPRESSION STRUTS:STEEL SECTION WITH L/R RATIO OF 200 MAXIMUM. ATTACH TO MAIN RUNNERS WITH 1/4-INCH MACHINE BOLT AND TO 4X2.5X14ga Cee OR 4X4X11ga SQUARE TUBE WITH 3/16-INCH DIAMETER POWER-DRIVEN STUD.
COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE:

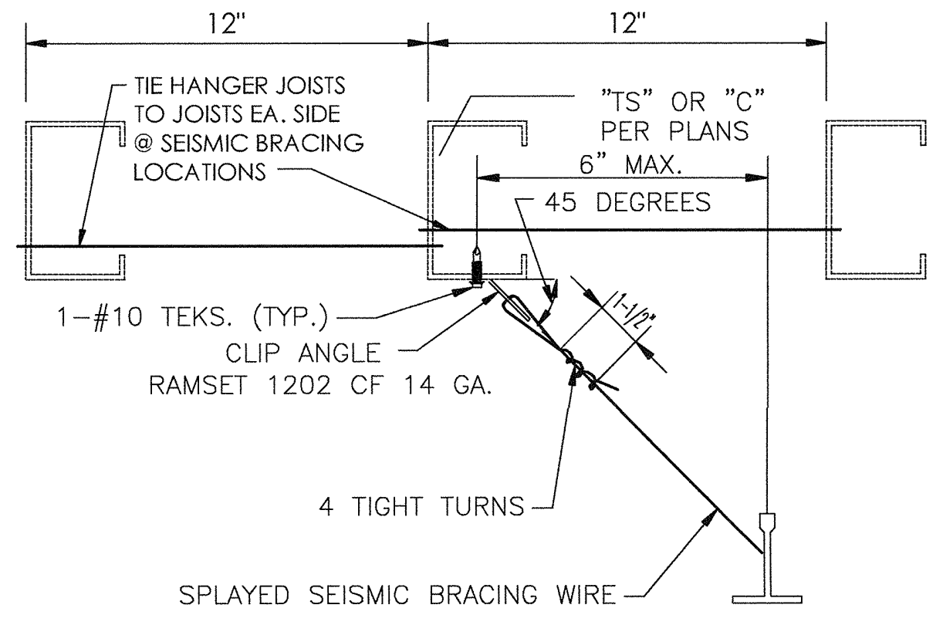


NOTE: "BRACING TO BE NOT MORE THAN 12' BY 12' ON CENTER"

FOR COMPRESSION STRUT USING CRC, COLD ROLLED CHANNEL, 18 GA, A MAXIMUM OF 1'-9" WOULD BE UNSUPPORTED HEIGHT. FOR 16 GA IT WOULD BE 2'-6" MAX HEIGHT.



(A) VERTICAL HANGER WIRE ATTACHMENT



(B) SPLAYED SEISMIC BRACING WIRE ATTACHMENT

(ACCEPTABLE DETAILS PER FIG. 5(A)-IR-25-2.13)

(NOTE:)
(SYSTEM IS HEAVY DUTY COMPLIES WITH ASCE7.
USG TESTING REF# ICC-ES, ESR-1222
ARMSTRONG TESTING REF# ICC-ES, ESR-1308
IN REFERENCE TO DSA IR A-5.
DESIGNED IN ACCORDANCE WITH IR-25-2.13 REVISED 04-08-14

HEAVY DUTY / ASTM CLASS / FIRE RATED

USG BRANDS:

USG - DXL26FRHD12' MAINS
USG - DXL424FRHD4' CROSS T's
USG - DXL216FRHD2' CROSS T's
M7HD 12' ANGLES 7/8 (ALTERNATE)
ACM7 SEISMIC CLIP (ALTERNATE)
DXL - 116FRHD 1' CROSS T's
2" WALL ANGLE

ARMSTRONGS BRAND:

PRELUDE FIRE GUARD

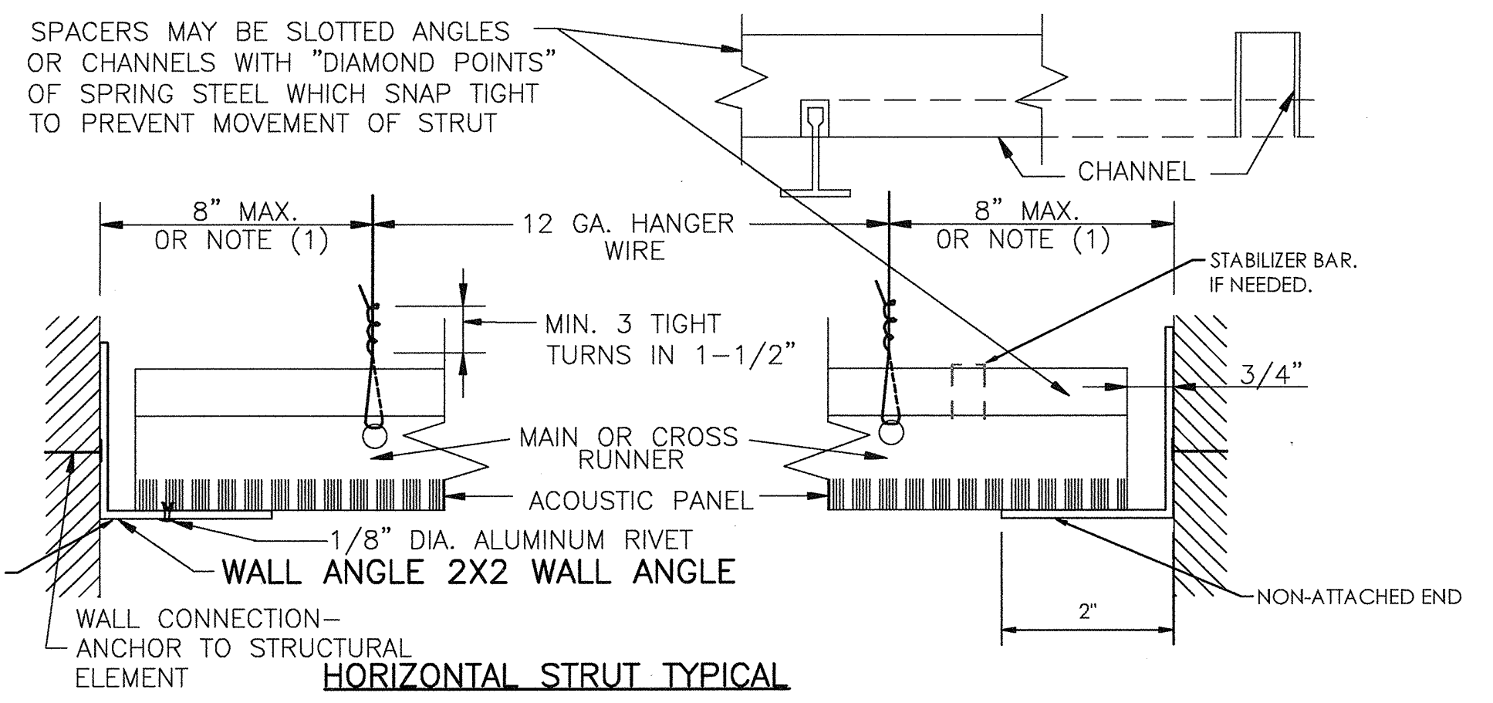
8301 HD	12' MAINS
8341 HD	4' CROSS T's
8323 HD	2' CROSS T's
8313 HD	1' CROSS T's
(7301 HD)	7/8" ANGLE HD (ALTERNATE)
BERC 2 CLIP	SEISMIC CLIP (ALTERNATE)
BREC CLIP	SEISMIC CLIP (ALTERNATE)

2" WALL ANGLE

A# **03-117117**
AC N.N. FLS ~~~ SS ~~~
DATE FEB 0 3 2017
FILE # 19-H10

REFERENCE DSA IR 25-2.13 DATED APRIL 8, 2014

TYPICAL DESIGN WHEN USING 2" ANGLE



HORIZONTAL STRUT TYPICAL

NOTES:

8" FROM WALL OR 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS, WHEN RUNNER EXCEEDS 8"

① DETAIL NUMBER
⑩ SHEET SHOWN ON

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801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
PRESSBOX CEILING DETAIL (HOME)
8'-0" X 34'-0" PRESSBOX

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

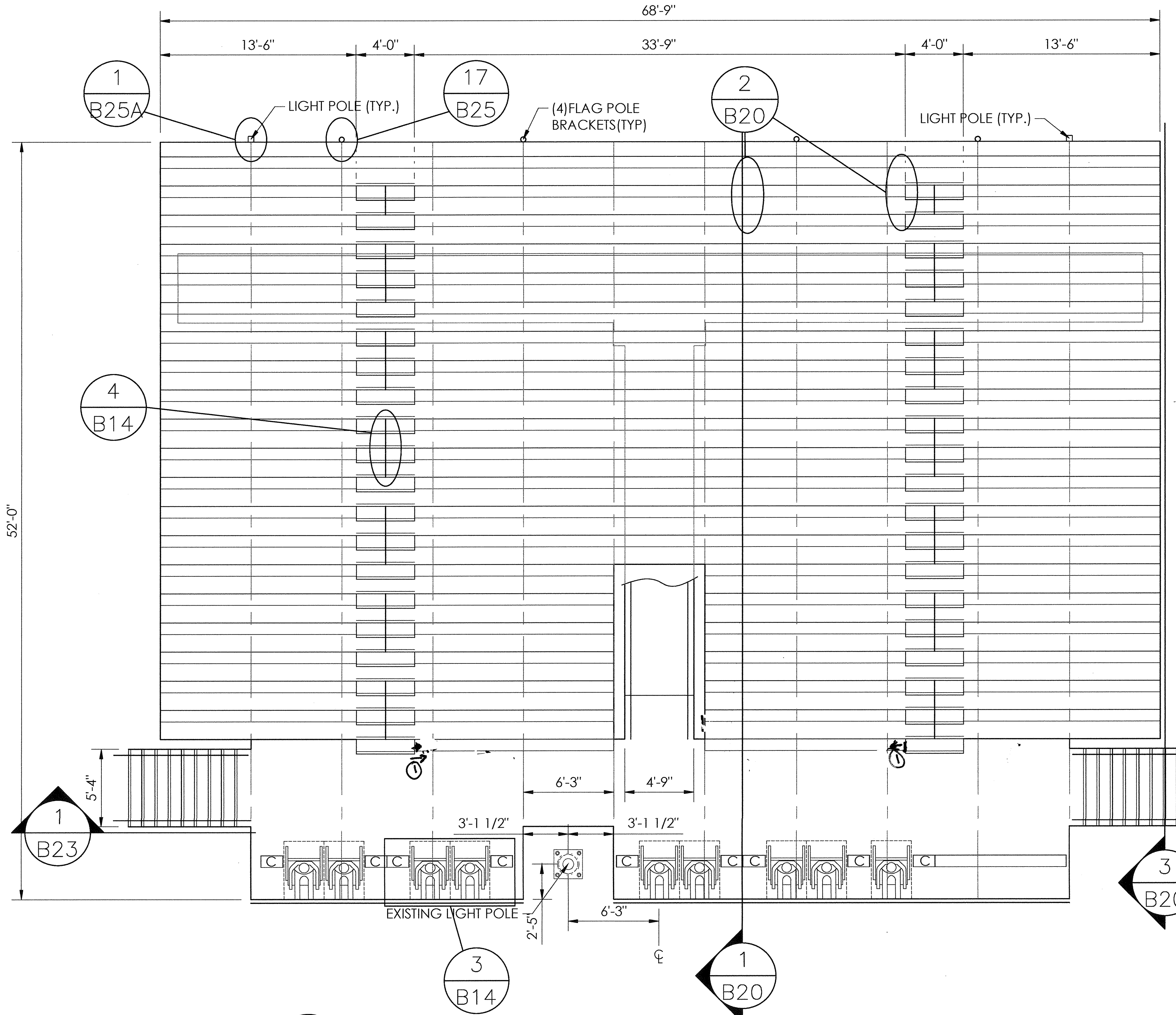
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

SHEET **B-13** OF **B-30**

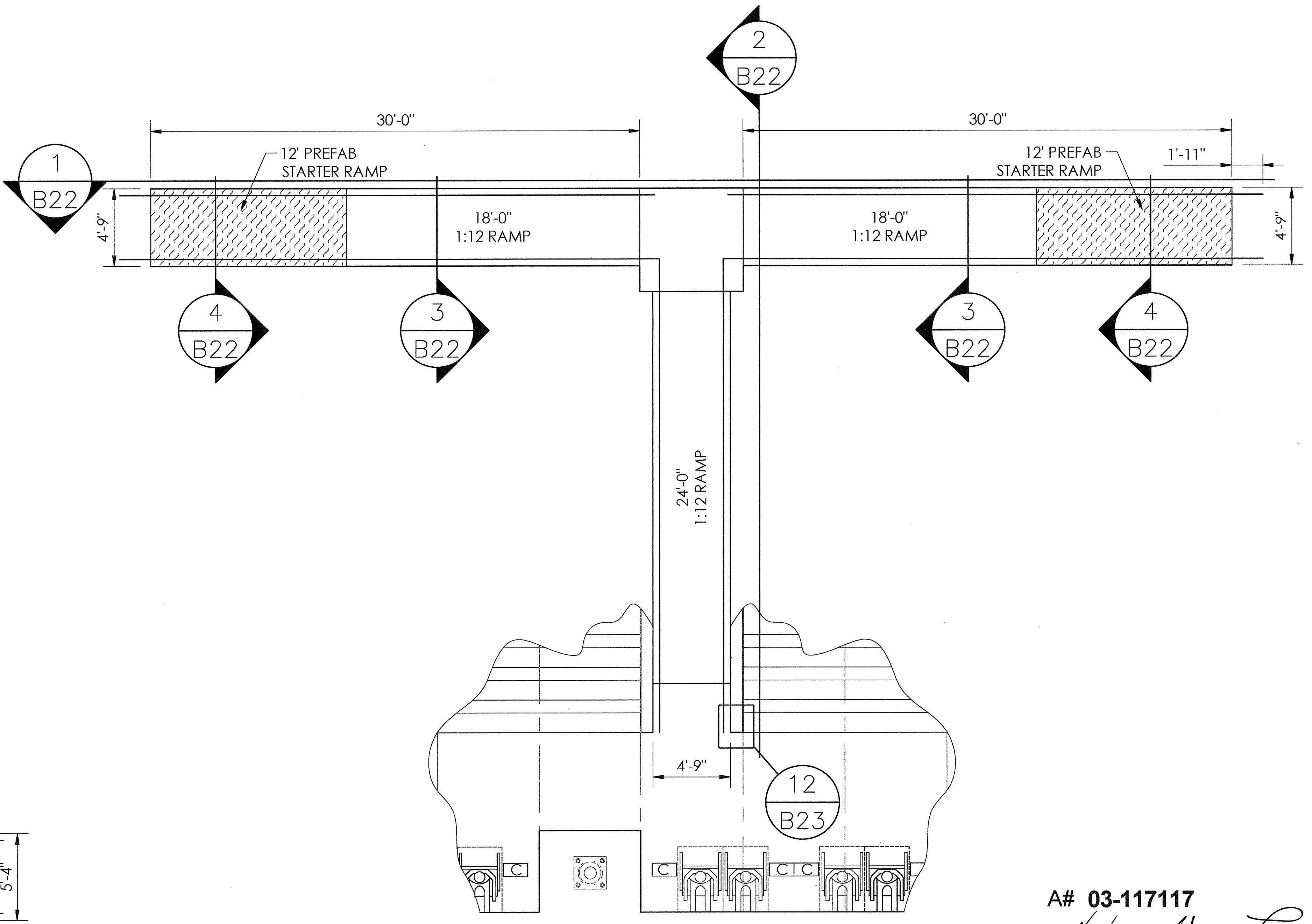
22" X 34" (11x17 = 1/2 indicated scale)



SEATING LAYOUT (VISITOR)

2 1 B14 SCALE: 3/16"=1'-0"

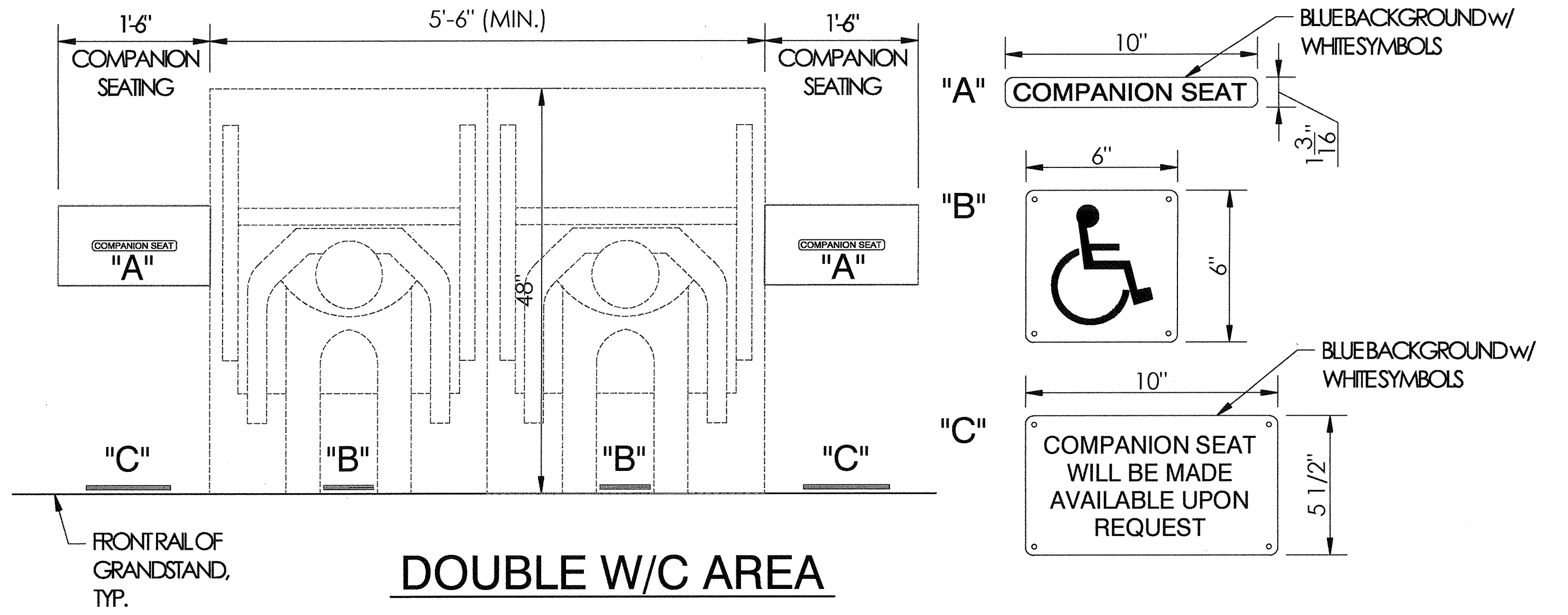
805 TOTAL NET 18" SEATS
9 TOTAL NET 18" COMPANION SEATS C
9 TOTAL NET 33" WHEELCHAIR SPACES
823 TOTAL SEATING CAPACITY



RAMP PLAN VIEW

2 B14 SCALE: 3/16"=1'-0"

A# 03-117117
AC N.N. FLS Ely SS
DATE FEB 0 3 2017
FILE # 19-H10


1'-6"
5'-6" (MIN.)
1'-6"
COMPANION SEATING
COMPANION SEATING
48"
"A"
"A"
"C"
"B"
"B"
"C"
FRONT RAIL OF GRANDSTAND, TYP.
10"
BLUE BACKGROUND w/ WHITE SYMBOLS
"A"
COMPANION SEAT
1 3/16"
6"
"B"
6"
10"
BLUE BACKGROUND w/ WHITE SYMBOLS
"C"
COMPANION SEAT WILL BE MADE AVAILABLE UPON REQUEST
5 1/2"

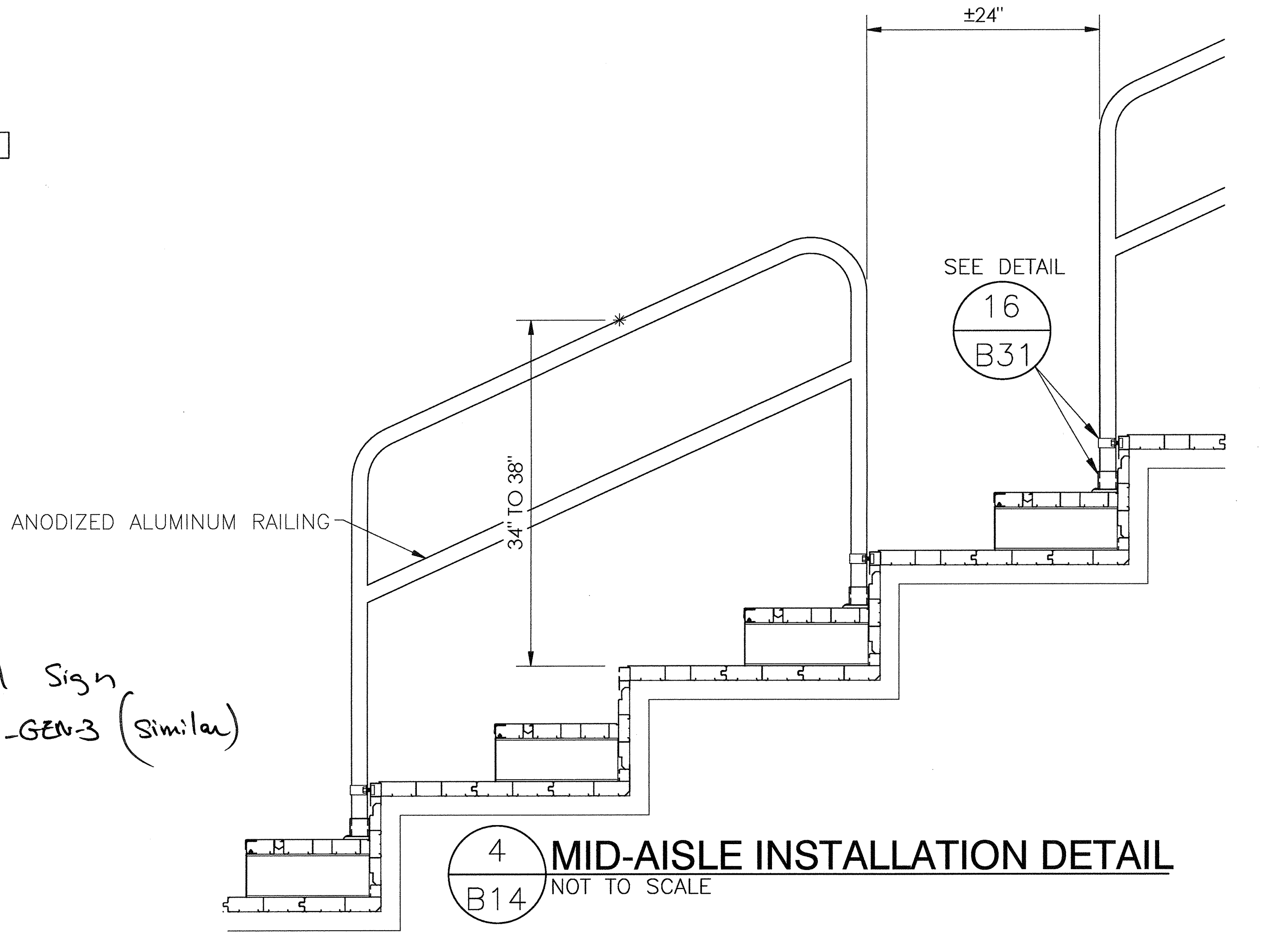
DOUBLE W/C AREA

SIGNAGE TYP. @ WHEELCHAIR AREAS
A = COMPANION: 1 3/16" X 10" PLASTIC
B = ACCESSIBLE: 6" X 6" 0.040 ALUM.
C = COMPANION: 5 ½" X 10" 0.040 ALUM.

SIGN DETAIL

3 B14 NOT TO SCALE

① Directional Sign
Per det. 22_GEN-3 (Similar)



MID-AISLE INSTALLATION DETAIL

4 B14 NOT TO SCALE

DETAIL NUMBER
SHEET SHOWN ON

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Established 1946

GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

TYPE
SEATING LAYOUT (VISITOR)
50'-0" X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

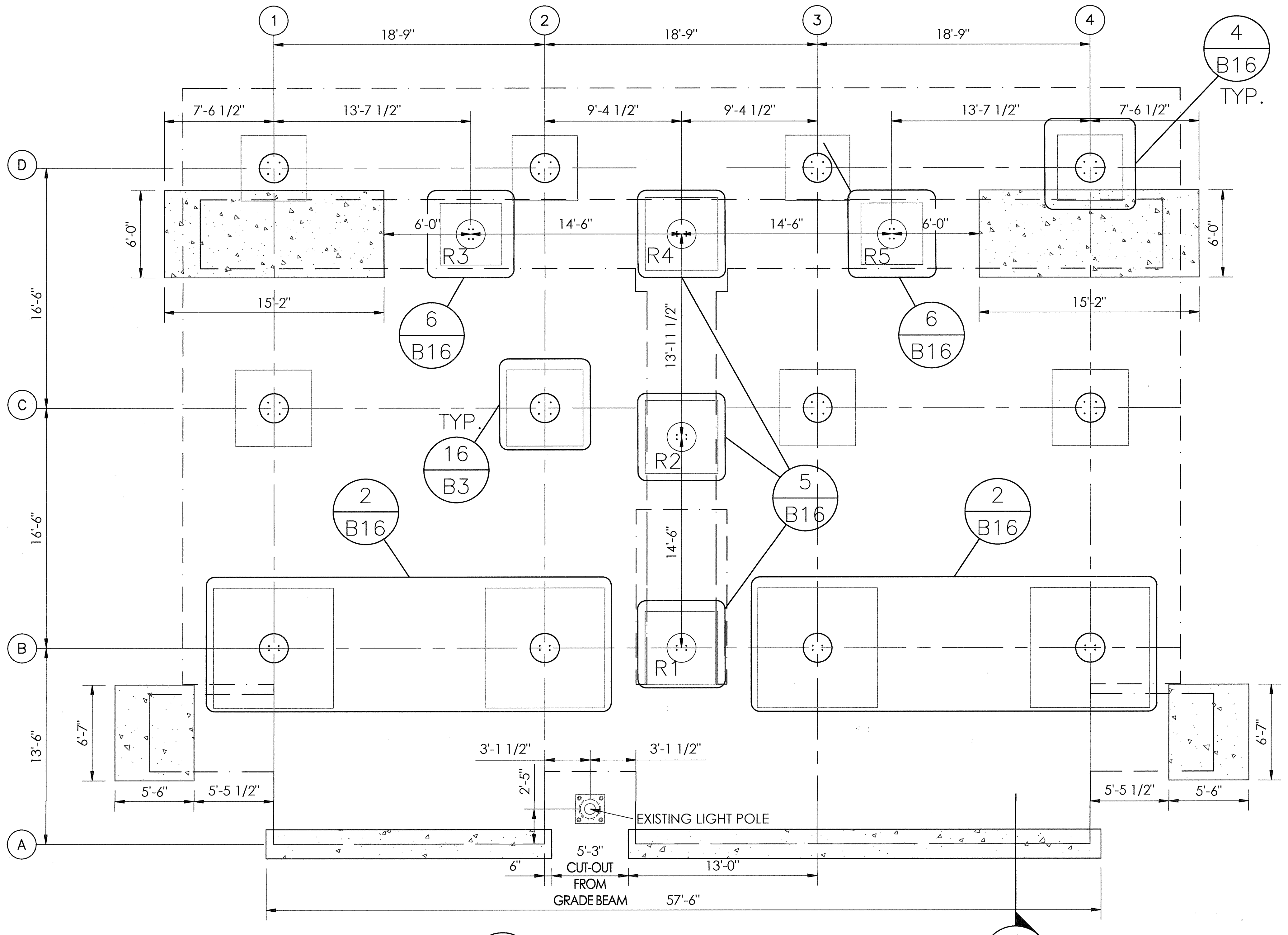
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	EXPANDED STAND
1	MG	12/15/15	LIGHT POLE OBSTRUCTION WORK AROUND

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

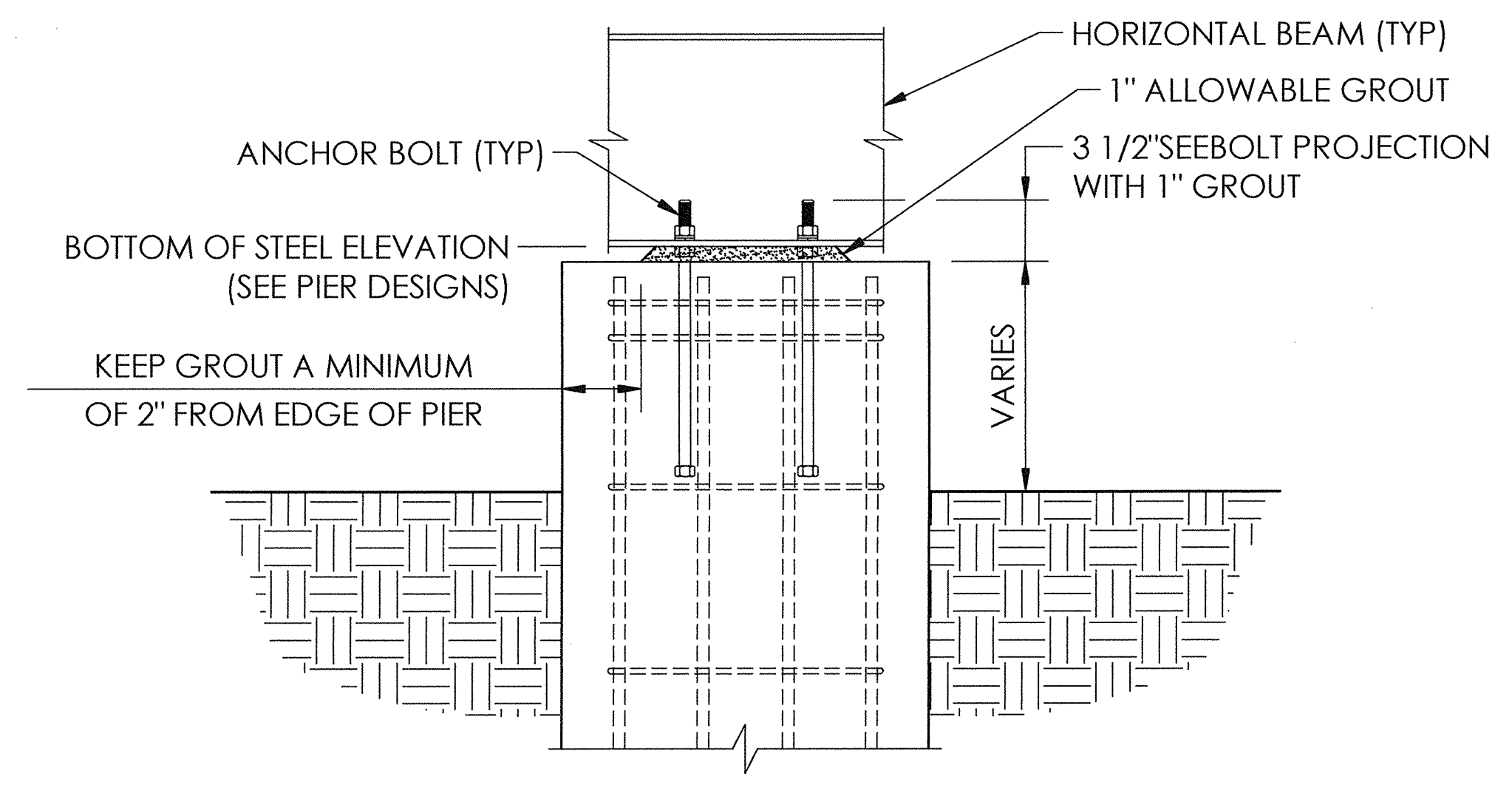
SHEET	OF
B-14	**B-30**

22" X 34" (11x17 = 1/2 indicated scale)



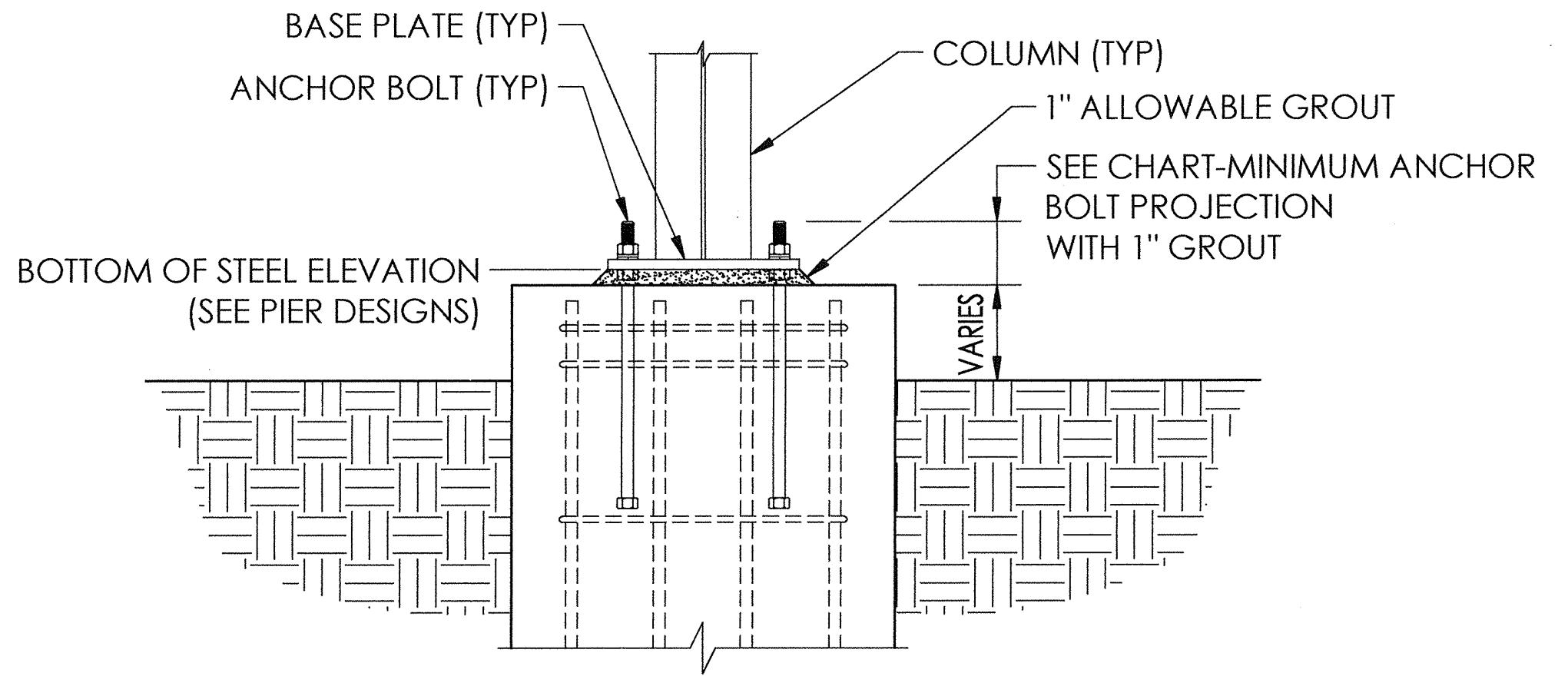
1/B15 FOOTING LAYOUT (VISITOR)

SCALE: 3/16"=1'-0"



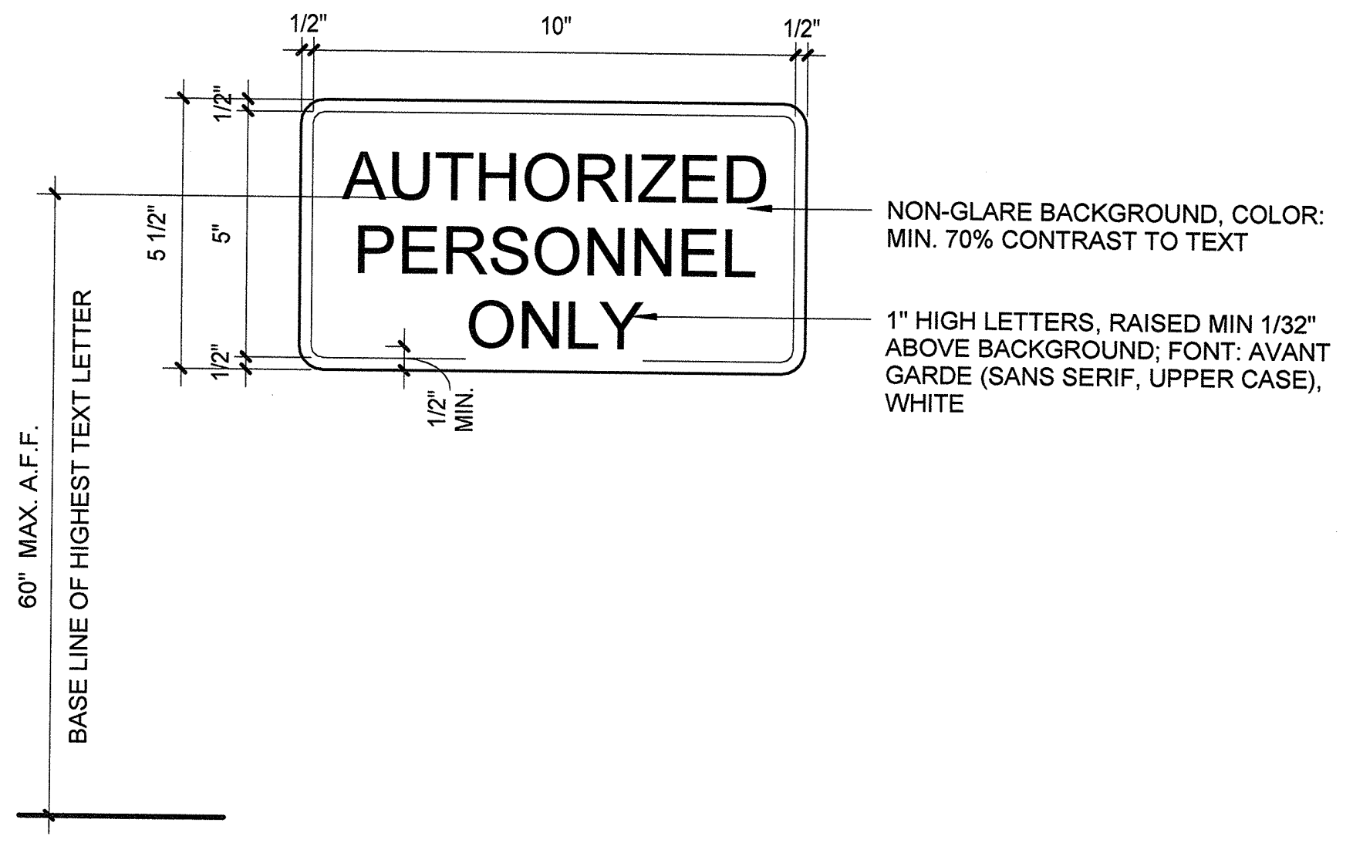
2/B15 "B" ROW PIER TOP DETAIL

NOT TO SCALE



3/B15 "C" & "D" ROW PIER TOP DETAIL

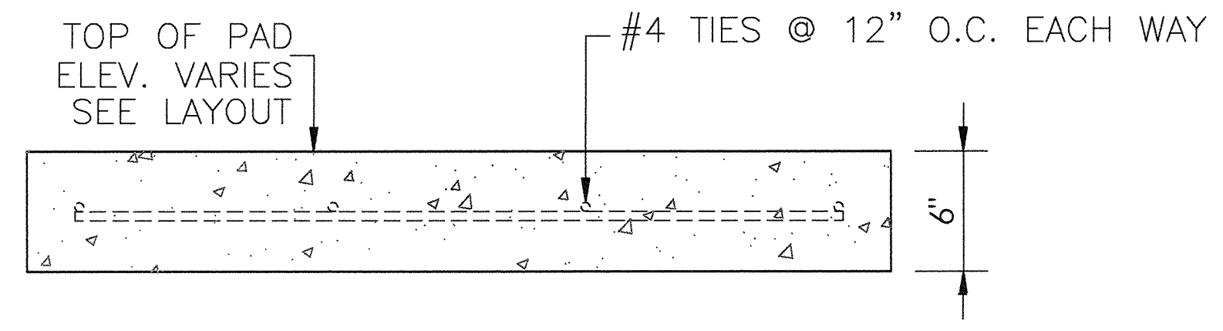
NOT TO SCALE


1/2"
10"
1/2"
1/2"
5 1/2"
5"
1/2"
1/2" MIN.
AUTHORIZED
PERSONNEL
ONLY
NON-GLARE BACKGROUND, COLOR: MIN. 70% CONTRAST TO TEXT
1" HIGH LETTERS, RAISED MIN 1/32" ABOVE BACKGROUND; FONT: AVANT GARDE (SANS SERIF, UPPER CASE), WHITE
60" MAX. A.F.F.
BASE LINE OF HIGHEST TEXT LETTER

NOTE:

1. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERES. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. PRIMARY ENTRANCES TO RECEIVE ROOM IDENTIFICATION SIGN, SECONDARY ENTRANCES TO HAVE ROOM NUMBER U.N.O., REFER ACCESSIBILITY PLAN AND DOOR SCHEDULE.

8/B15 AuthoRiZED ~~PERSONNEL~~ PERSONNEL SiGNAGE.



4/B15 CONCRETE SLAB DETAIL

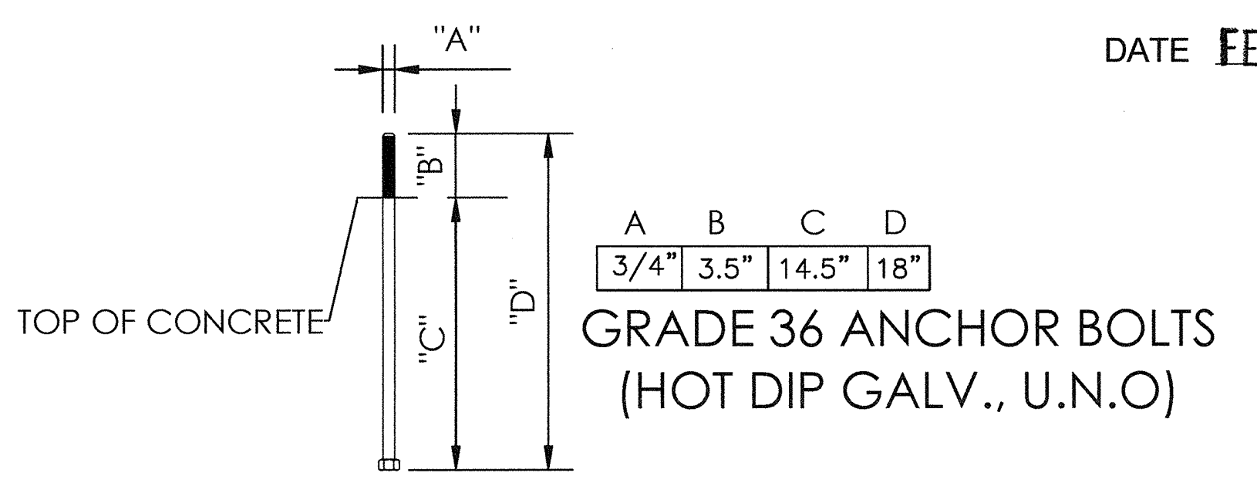
NOT TO SCALE

A# 03-117117

AC N.N. FLS KH SS h

DATE FEB 0 3 2017

FILE # 19-H10



A	B	C	D
3/4"	3.5"	14.5"	18"

GRADE 36 ANCHOR BOLTS
(HOT DIP GALV., U.N.O)

5/B15 ANCHOR BOLT DETAIL

NOT TO SCALE

PIER ELEVATION CHART

PIER	T.O.P. ELEVATION	B.O.S. ELEVATION
B ROW	101.9948'	102.0781'
C ROW	100.4167'	100.5'
D ROW	100.4167'	100.5'
R1	103.6221'	103.7054'
R2	102.4540'	102.5373'
R4	101.6221'	101.7054'
R3 & R5	100.6762'	100.7595'

T.O.P. = Top Of Pier
B.O.S. = Bottom Of Steel

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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NO. S2386
EXPIRES 3-31-18

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2	MG	03/03/16	EXPANDED STAND
1	MG	12/15/15	LIGHT POLE OBSTRUCTION WORK AROUND

TYPE
FOOTING LAYOUT (VISITOR)
50'-0" X 24" \ 22 ROWS

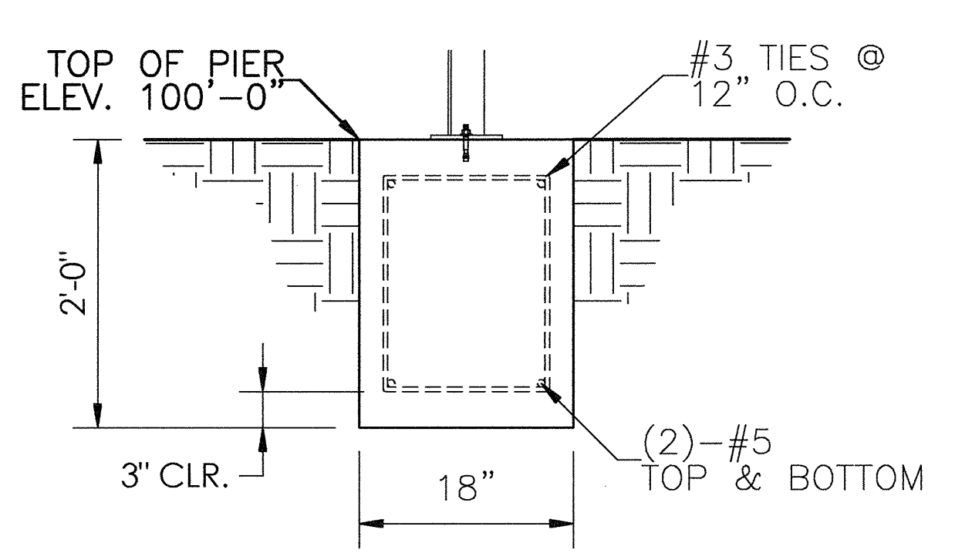
TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

DATE 3/23/15
DRAWN AA
CHECKED DMc

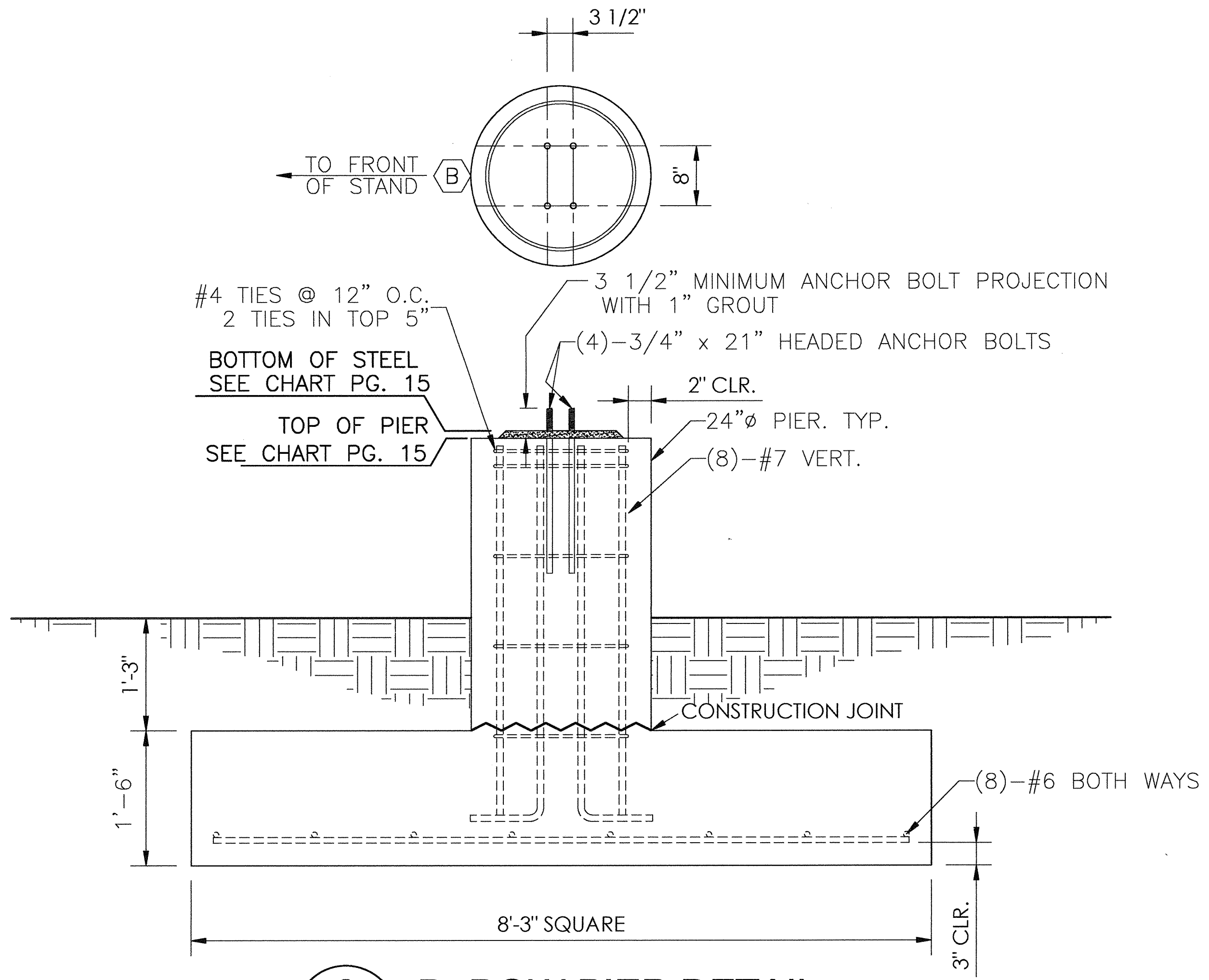
JOB NUMBER 14202

SHEET B-15 OF B-30

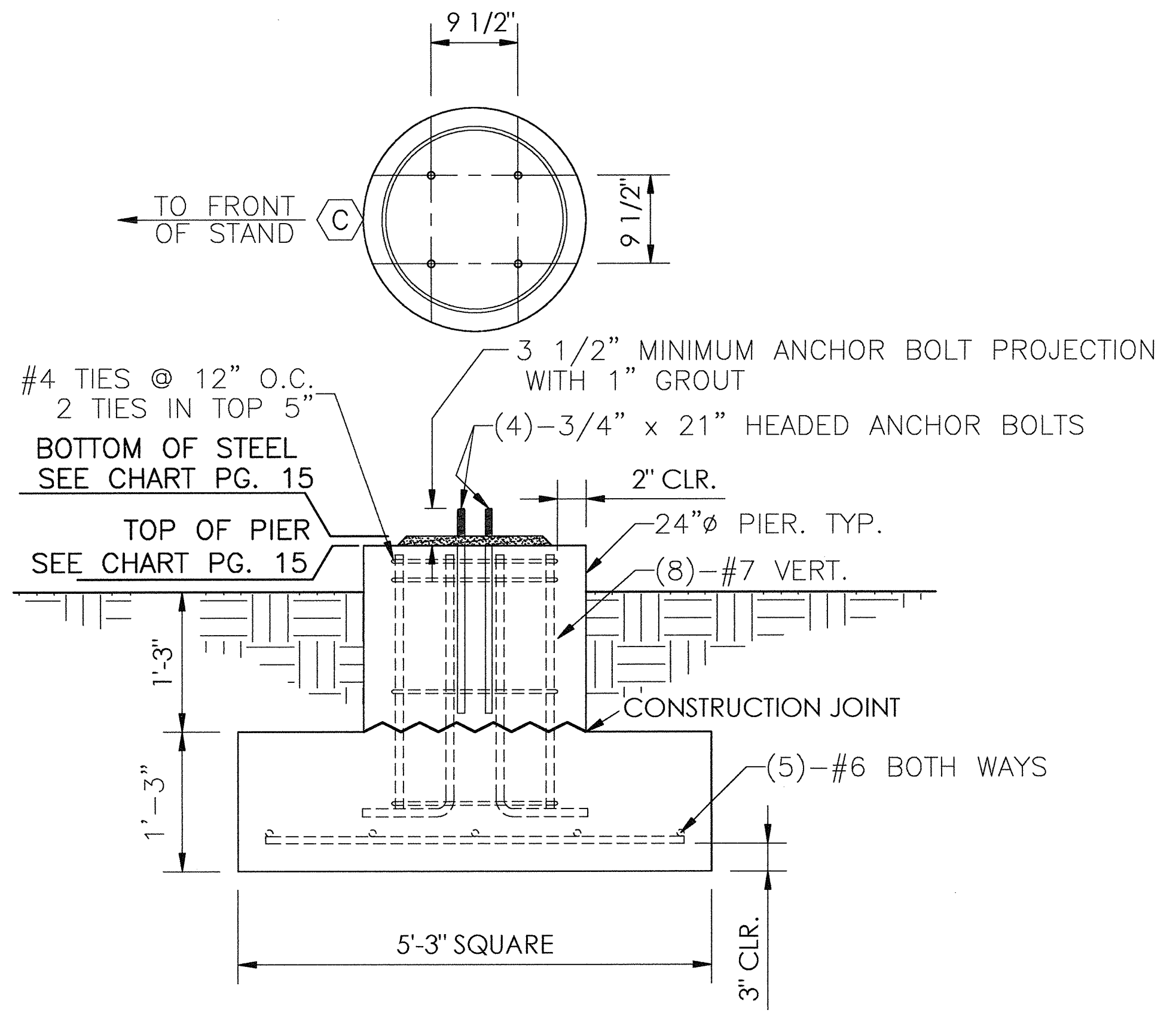
22" X 34" (11x17 = 1/2 indicated scale)



1 B16 "A" ROW GRADE BEAM DETAIL
NOT TO SCALE

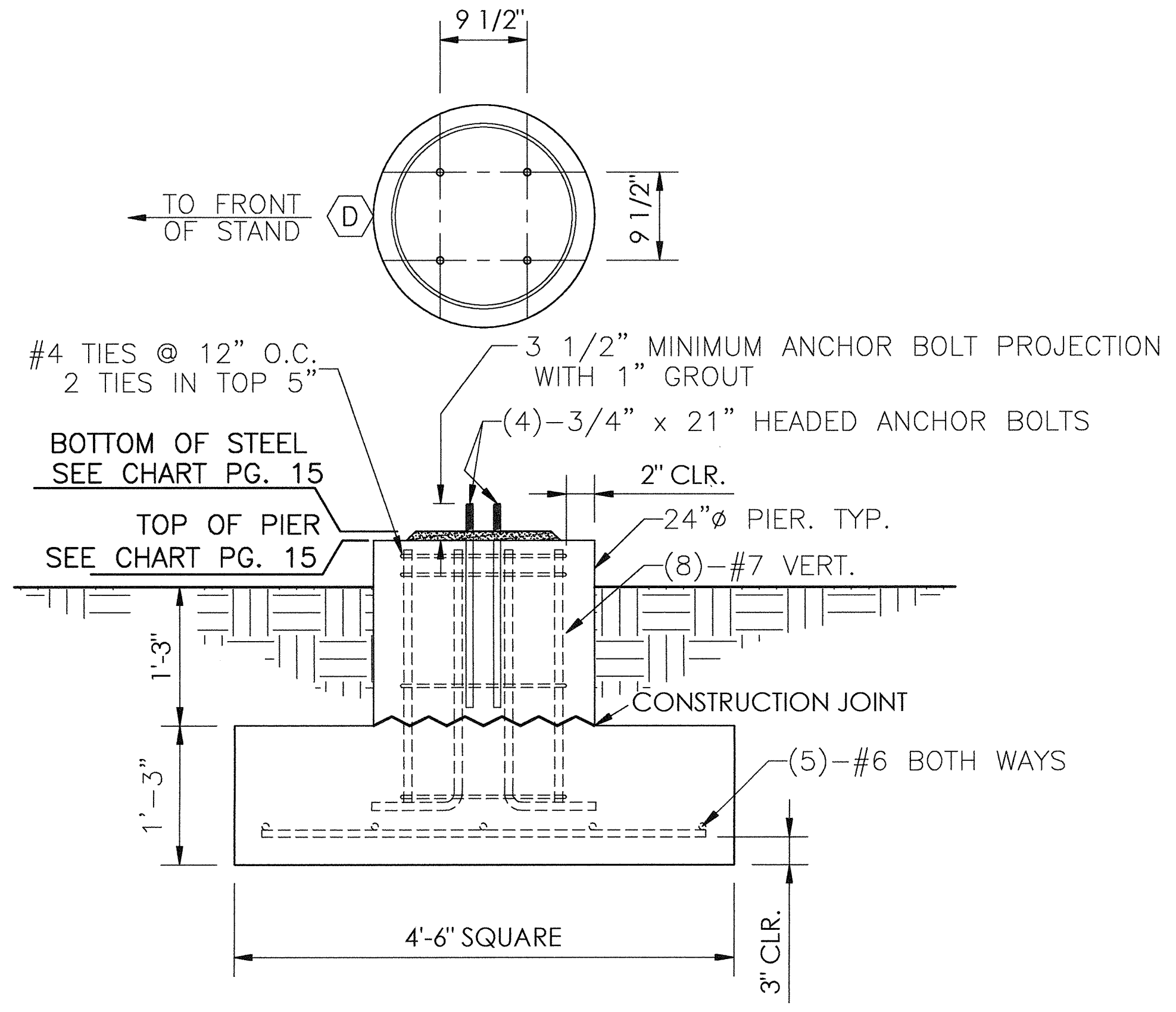

3 1/2"
TO FRONT OF STAND
B
8"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 21" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 15
2" CLR.
TOP OF PIER SEE CHART PG. 15
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-6"
(8)-#6 BOTH WAYS
8'-3" SQUARE
3" CLR.

2 B16 "B" ROW PIER DETAIL
NOT TO SCALE

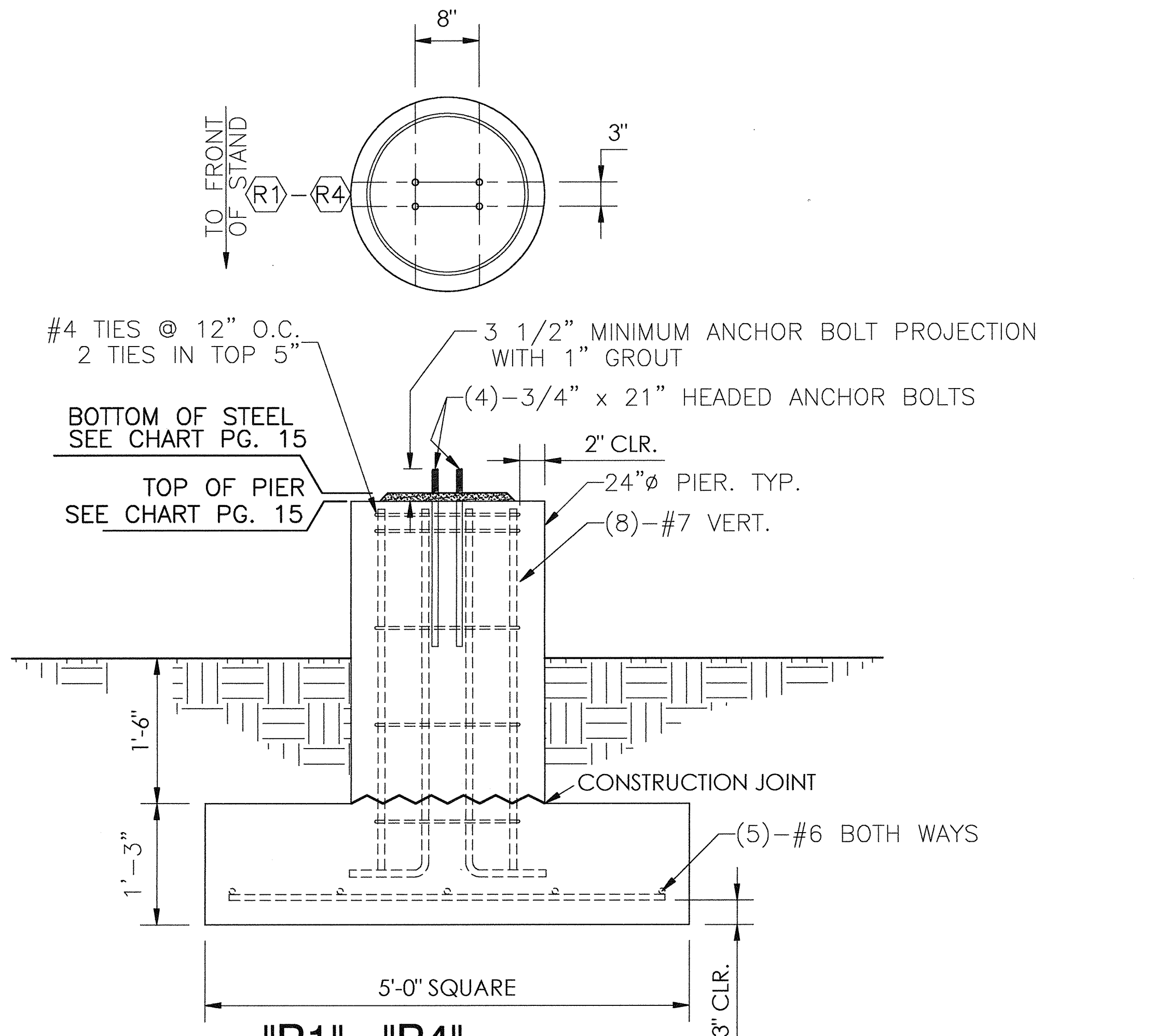

9 1/2"
TO FRONT OF STAND
C
9 1/2"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 21" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 15
2" CLR.
TOP OF PIER SEE CHART PG. 15
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
5'-3" SQUARE
3" CLR.

3 B16 "C" ROW PIER DETAIL
NOT TO SCALE

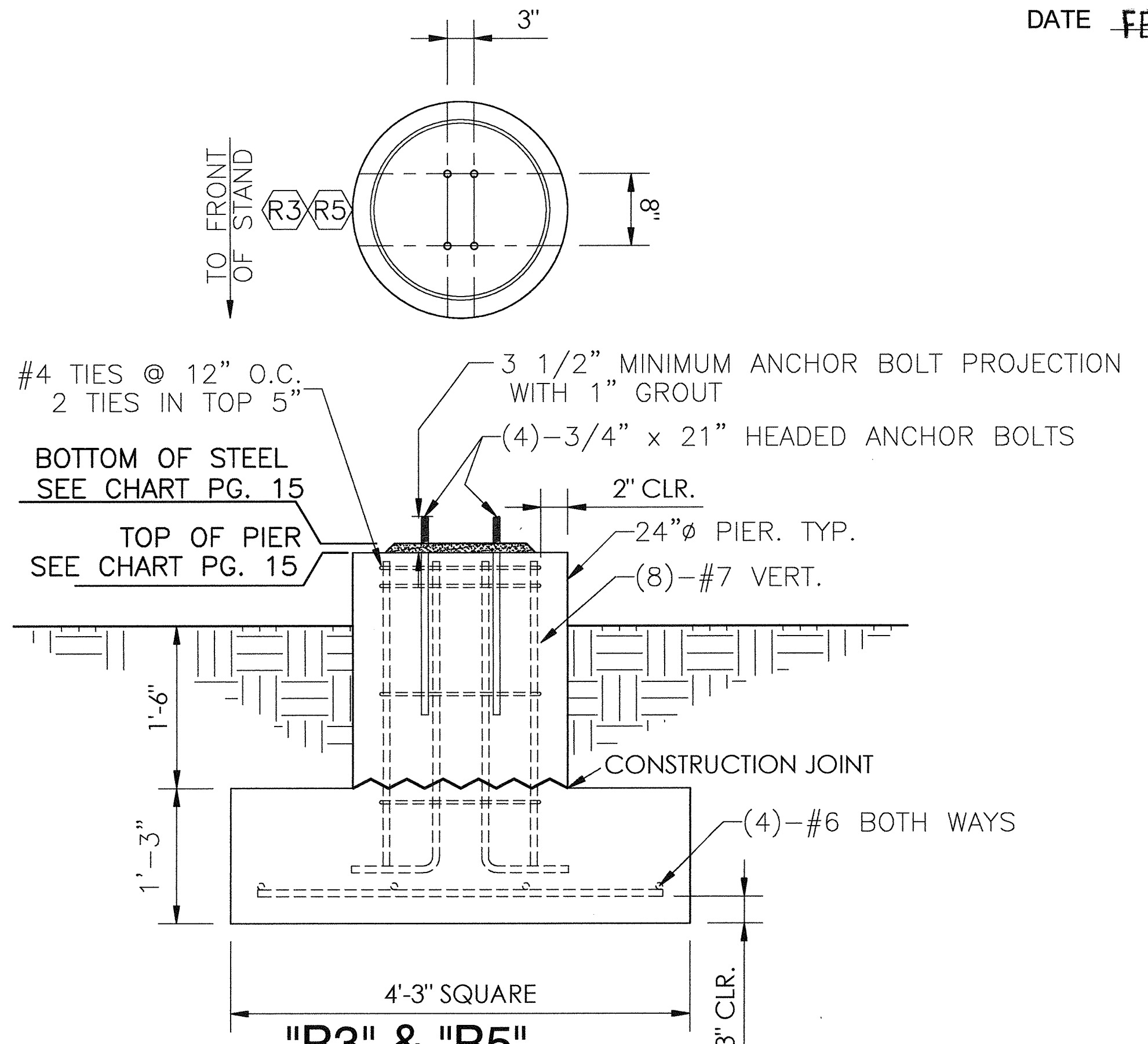
A# 03-117117
AC N.N. FLS BH SS h
DATE FEB 0 3 2017
FILE # 19-H10


9 1/2"
TO FRONT OF STAND
D
9 1/2"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 21" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 15
2" CLR.
TOP OF PIER SEE CHART PG. 15
24"ø PIER. TYP.
(8)-#7 VERT.
1'-3"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
4'-6" SQUARE
3" CLR.

4 B16 "D" ROW PIER DETAIL
NOT TO SCALE


8"
TO FRONT OF STAND
R1
R4
3"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 21" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 15
2" CLR.
TOP OF PIER SEE CHART PG. 15
24"ø PIER. TYP.
(8)-#7 VERT.
1'-6"
CONSTRUCTION JOINT
1'-3"
(5)-#6 BOTH WAYS
5'-0" SQUARE
3" CLR.

5 B16 "R1" - "R4" PIER DETAIL
NOT TO SCALE


3"
TO FRONT OF STAND
R3
R5
8"
#4 TIES @ 12" O.C. 2 TIES IN TOP 5"
3 1/2" MINIMUM ANCHOR BOLT PROJECTION WITH 1" GROUT
(4)-3/4" x 21" HEADED ANCHOR BOLTS
BOTTOM OF STEEL SEE CHART PG. 15
2" CLR.
TOP OF PIER SEE CHART PG. 15
24"ø PIER. TYP.
(8)-#7 VERT.
1'-6"
CONSTRUCTION JOINT
1'-3"
(4)-#6 BOTH WAYS
4'-3" SQUARE
3" CLR.

6 B16 "R3" & "R5" PIER DETAIL
NOT TO SCALE

DETAIL NUMBER
SHEET SHOWN ON

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REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
PIER DESIGN SHEET (VISITOR)

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
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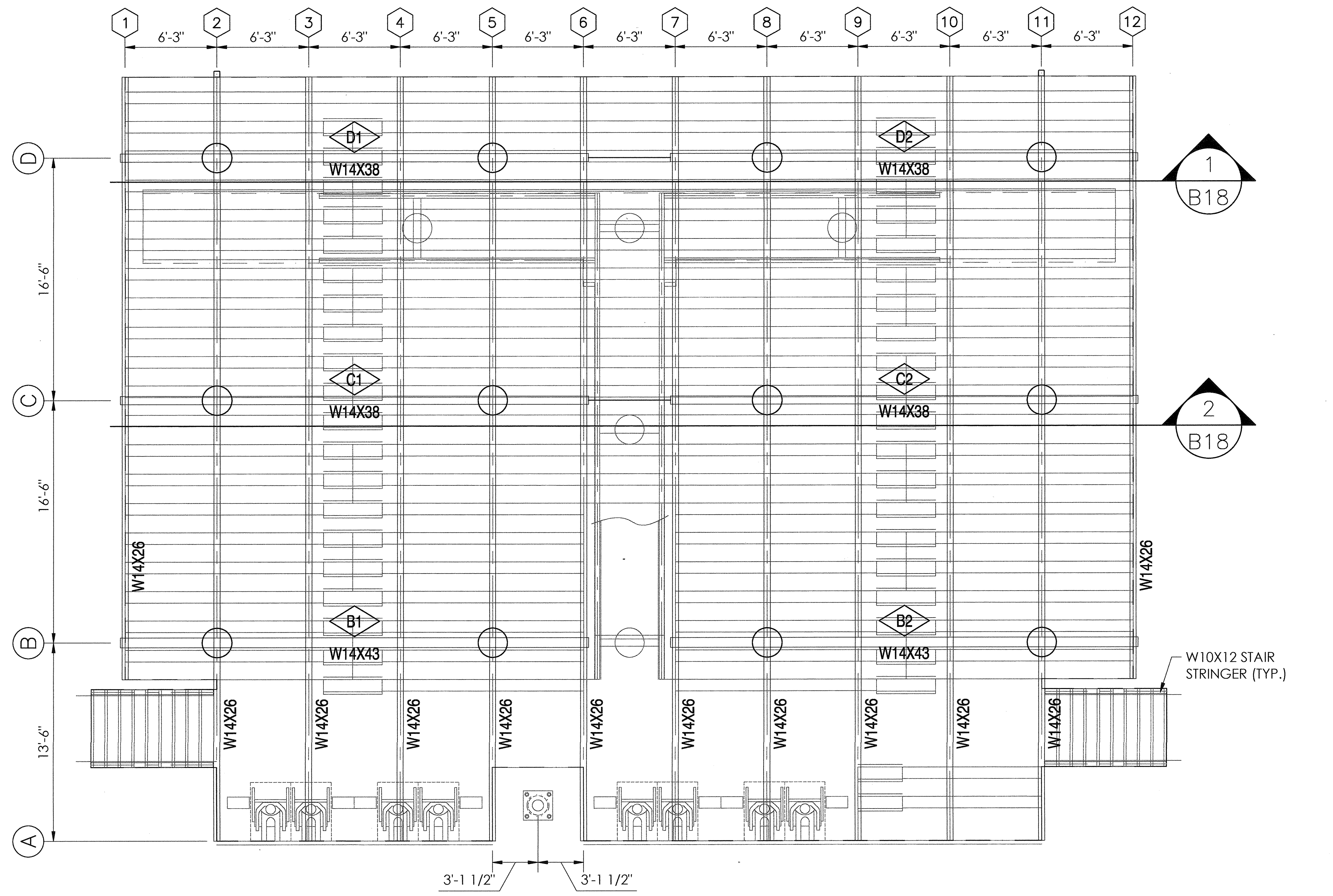
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

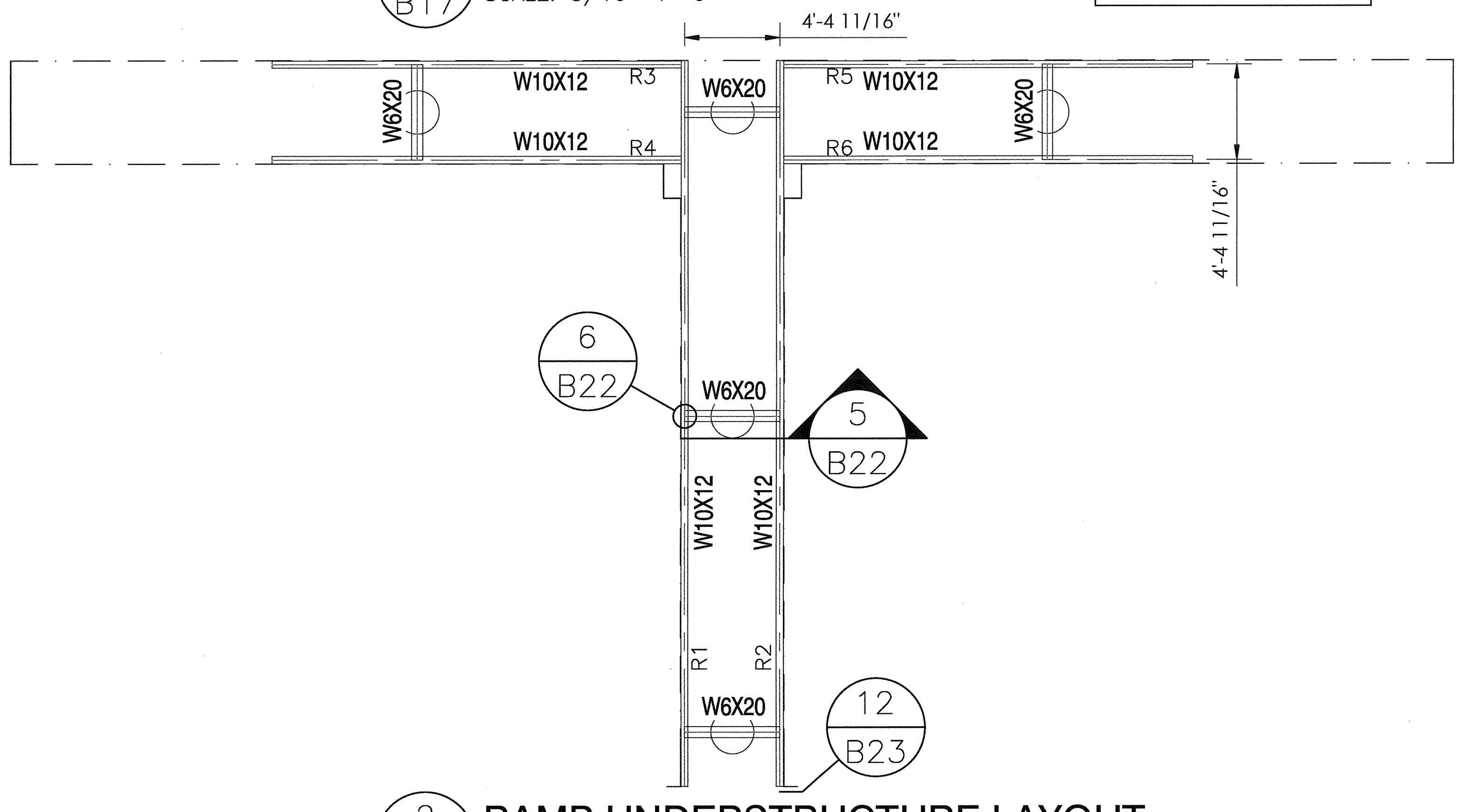
SHEET B-16 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



1 B17 **UNDERSTRUCTURE LAYOUT**
SCALE: 3/16"=1'-0"

SEE SEATING LAYOUT ON PAGE 14 FOR SECTION CUTS



2 B17 **RAMP UNDERSTRUCTURE LAYOUT**
SCALE: 3/16"=1'-0"

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE
UNDERSTRUCTURE LAYOUT (VISITOR)
50'-0" X 24" RISE \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

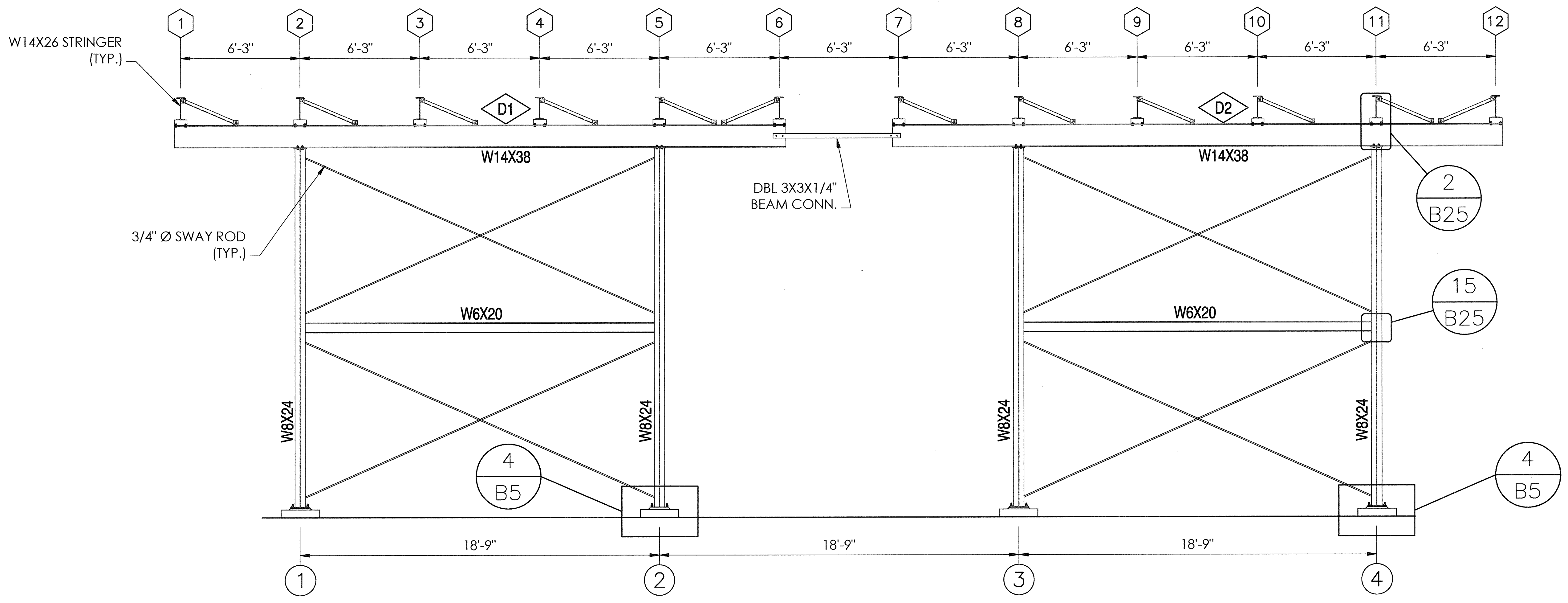
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	EXPANDED STAND
1	MG	12/15/15	LIGHT POLE OBSTRUCTION WORK AROUND

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

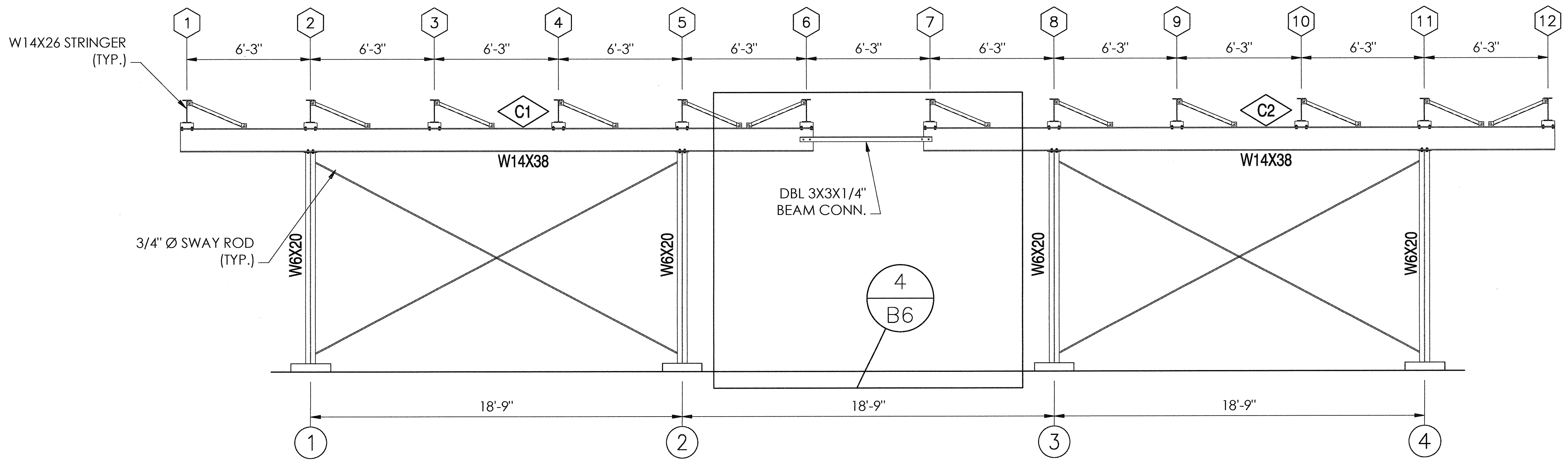
JOB NUMBER 14202

SHEET B-17 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



1 / B18 "D" ROW ELEVATION VIEW
NOT TO SCALE



2 / B18 "C" ROW ELEVATION VIEW
NOT TO SCALE

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

1 / 10 DETAIL NUMBER / SHEET SHOWN ON

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PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

NO. S2386
EXPIRES 3-31-18

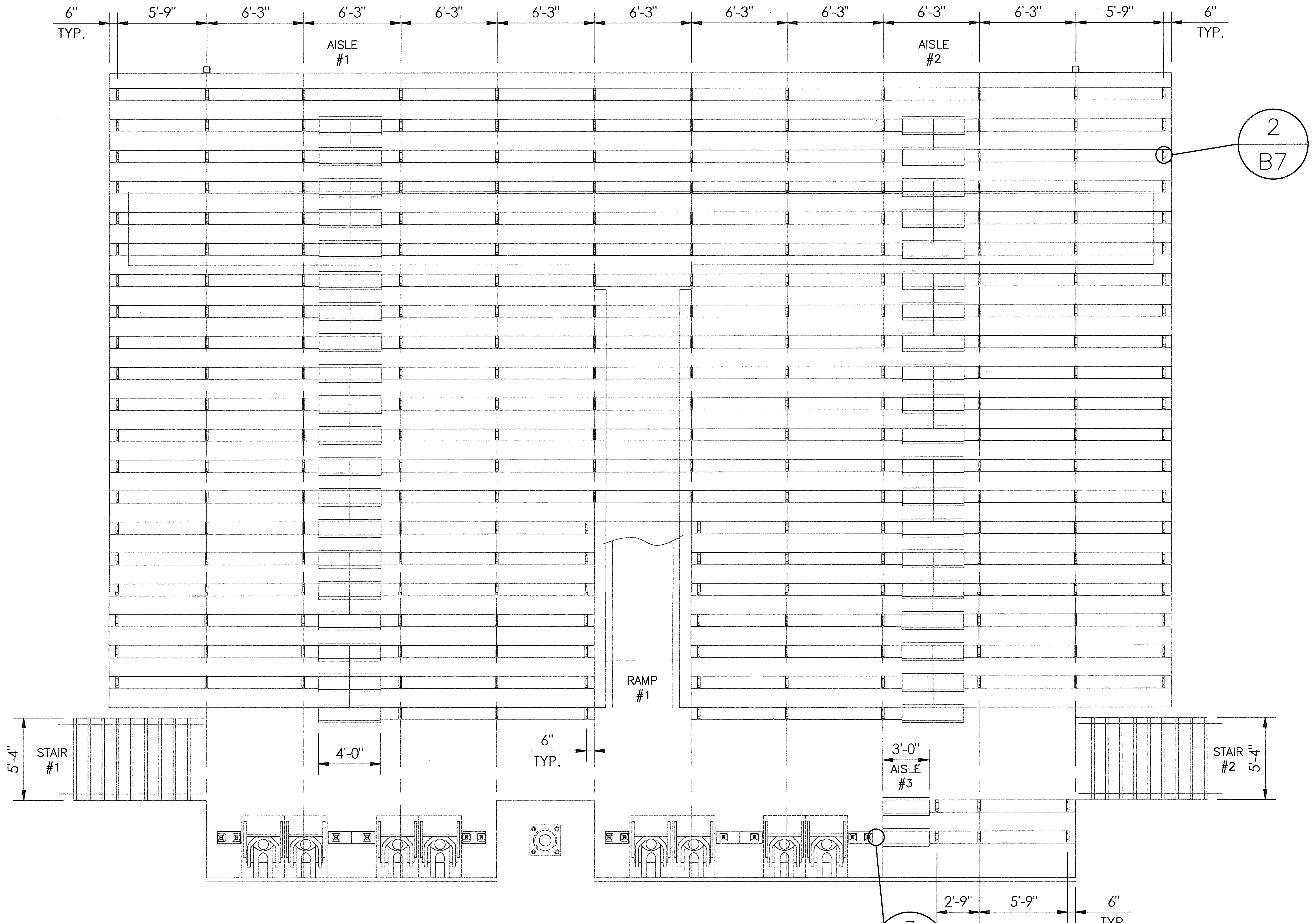
TYPE
ELEVATION VIEW (VISITOR)

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	EXPANDED STAND
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE 3/23/15
DRAWN AA
CHECKED DMc
JOB NUMBER 14202
SHEET B-18 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



1
B19
SEAT BRACKET/CLACS LAYOUT
SCALE: 3/16"=1'-0"

3
B7

SEE SEATING LAYOUT ON
PAGE 14 FOR SECTION CUTS

248 TOTAL SEAT BRACKETS
12 MAVERICK SEAT BRACKETS

CBC 2013:
PROVIDE 0.08" WIDTH PER SEAT FOR AISLES & STAIRS:
EQUIVALENT TO 150 PEOPLE PER FOOT.
PROVIDE 0.08" WIDTH PER SEAT FOR RAMPS:
EQUIVALENT TO 200 PEOPLE PER FOOT.

AISLE WIDTH CALCULATIONS:
AISLE #1 & #2
REQUIRED AISLE WIDTH = 278 SEATS X 0.08" PER SEAT =
23" <4'-0" CODE MINIMUM <4'-0" PROVIDED - OK

AISLE #3
REQUIRED AISLE WIDTH = 28 SEATS X 0.08" PER SEAT =
4" <3'-0" CODE MINIMUM <3'-0" PROVIDED - OK

AISLE ACCESSWAY:
24" TREAD DEPTH
CLEAR WIDTH = DEPTH (24") LESS SEAT WIDTH (9.5") = 14.5"
21 SEATS FIRST 12" CLEAR = 21 SEATS
.03" EACH ADDITIONAL SEAT: 14.5"-12" / 0.3" = 8 SEATS
MAXIMUM SEATS BETWEEN AISLES: 29 SEATS
MAXIMUM WIDTH BETWEEN AISLES: 29 X 1.5' / SEAT = 43'-6"
MAXIMUM ROW LENGTH = 43'-6" OK

EXIT WIDTH CALCULATIONS:
STAIRS #1 & #2 @ 5'-4" = 10'-8" TOTAL STAIR EXIT WIDTH

RAMP #1 @ 4'-9" = 4'-9" TOTAL RAMP EXIT WIDTH

STAIR EXIT CAPACITY = 10'-8" X 150 PEOPLE PER FOOT = 1600 STAIR EXIT CAPACITY FURNISHED
RAMP EXIT CAPACITY = 4'-9" X 200 PEOPLE PER FOOT = 950 RAMP EXIT CAPACITY FURNISHED
2550 TOTAL EXIT CAPACITY > 560 ACTUAL CAPACITY OK

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10

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Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE
SEAT BRACKET LAYOUT (VISITOR)
50'-0" X 24" \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

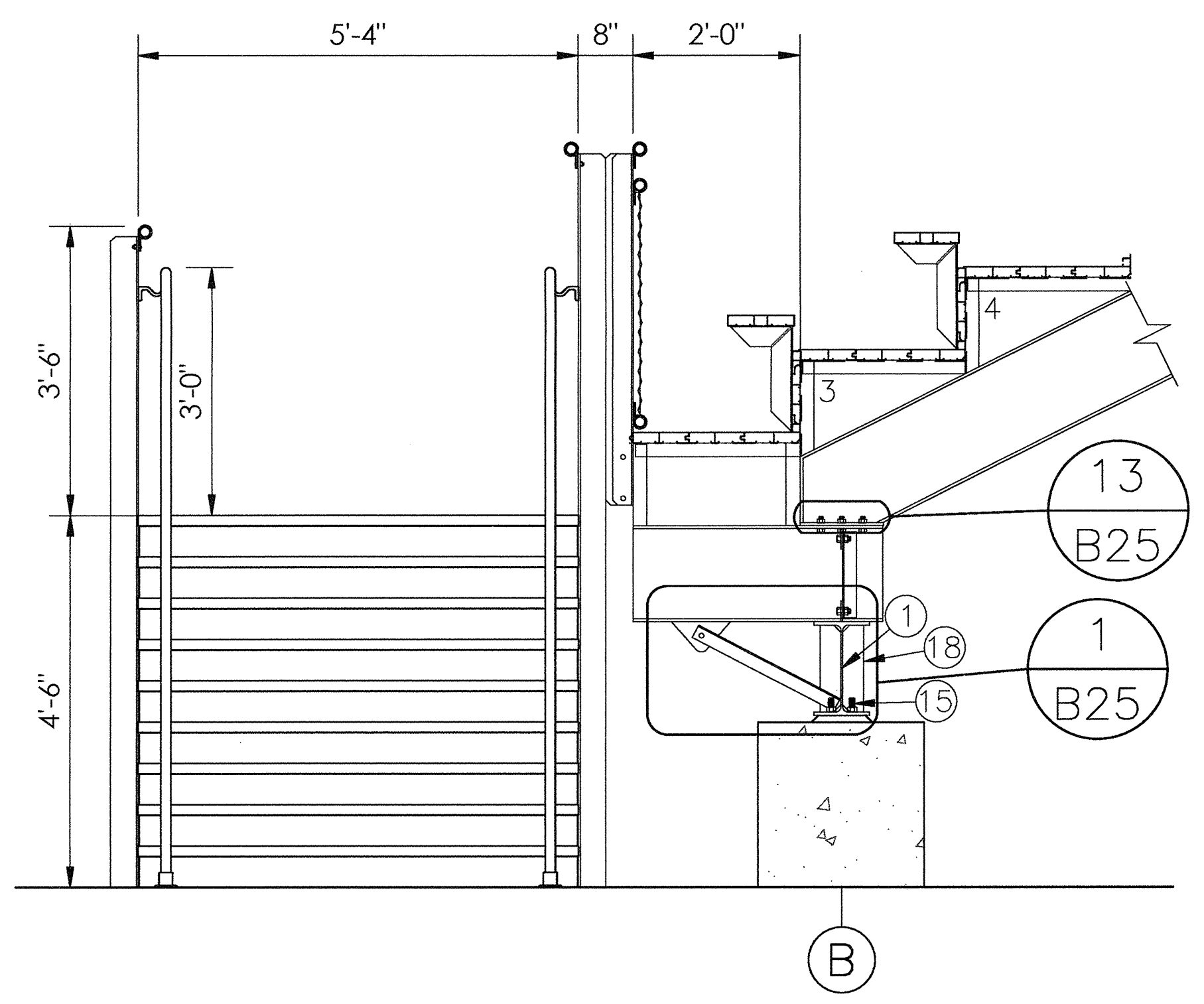
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	EXPANDED STAND
1	MG	12/15/15	LIGHT POLE OBSTRUCTION WORK AROUND

DATE 3/23/15
DRAWN AA
CHECKED DMc
JOB NUMBER 14202
SHEET B-19 OF B-30

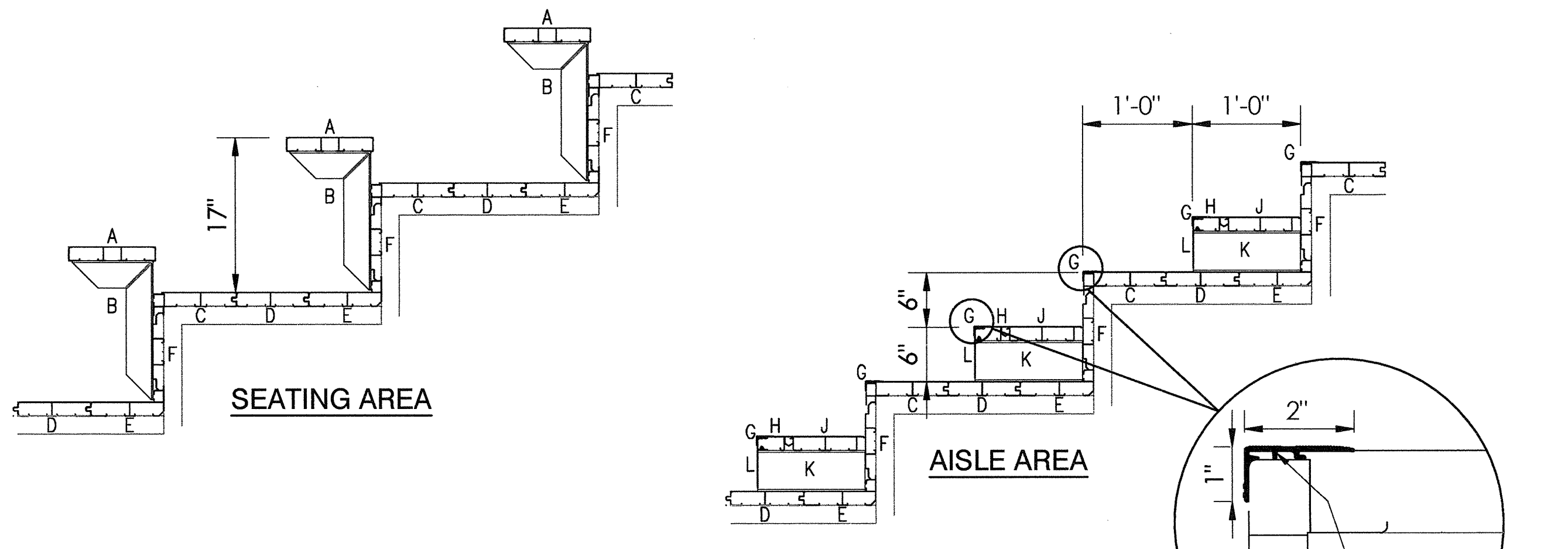
22" X 34" (11x17 = 1/2 indicated scale)

ITEM DESCRIPTION

①	W 14 X 43 (50 ksi)
②	W 14 X 38 (50 ksi)
③	W 14 X 34 (50 ksi)
④	W 14 X 26 (50 ksi)
⑤	W 10 X 12 (50 ksi)
⑥	W 8 X 31 (50 ksi) (NOT USED)
⑦	W 8 X 24 (50 ksi)
⑧	W 6 X 20 (50 ksi)
⑨	L 3 X 3 X 1/4 (50 ksi)
⑩	L 2 X 2 X 3/16 (50 ksi)
⑪	L 2 X 1 1/2 X 3/16 (50 ksi)
⑫	12 X 12 X 5/8 PLATE
⑬	6 X 8 X 3/8 PLATE
⑭	3/4 X REQ'D LENGTH SWAY ROD (50 ksi)
⑮	3/4 X 18 ANCHOR BOLT W/2 HEX HEAD NUTS & FLAT WASHER GRADE 36 ANCHOR BOLTS (HOP DIP GALV., U.N.O)
⑯	9 GAUGE CHAINLINK FENCE
⑰	ANODIZED ALUMINUM RAIL (SEE NOTES)
⑱	3 X 3/8 GUSSET PLATE (A36)
⑲	3/16" THICK STRINGER CLIP
⑳	14 X 14 3/4" PLATE
㉑	8 X 8 X 3/8" PLATE



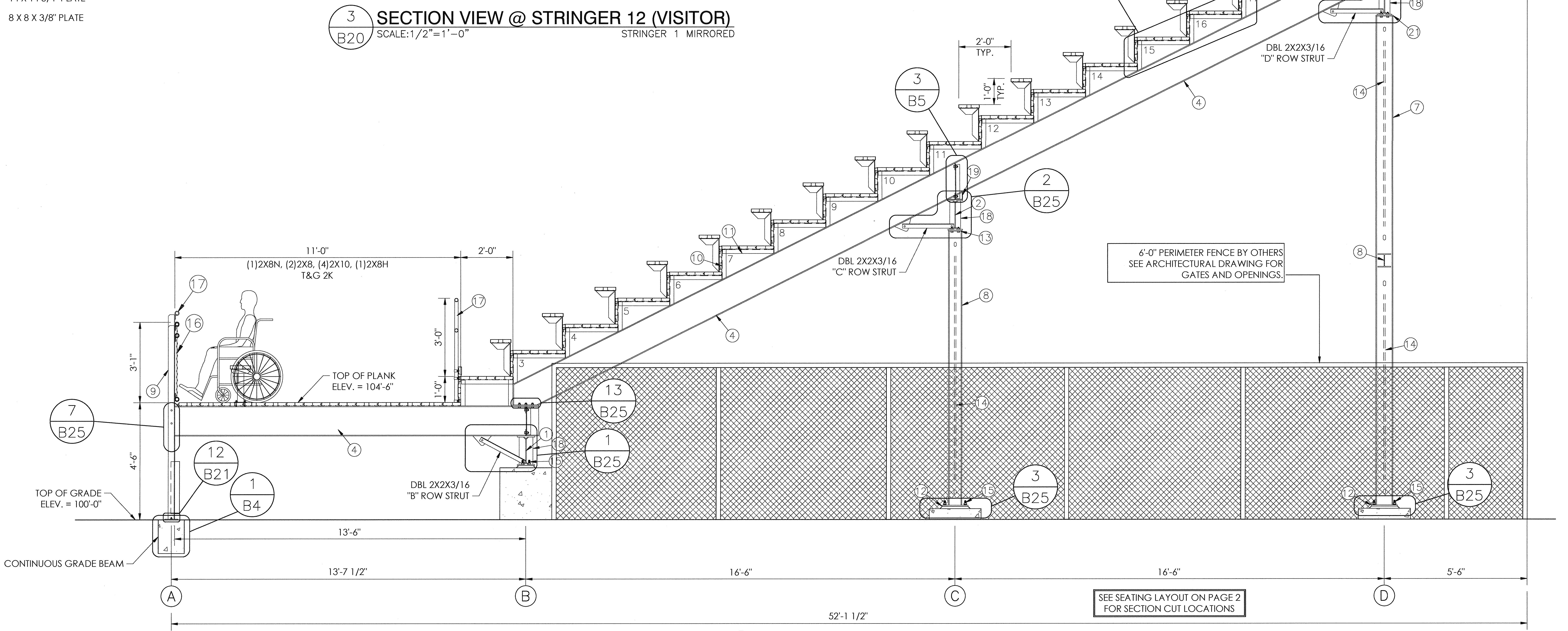
3 B20 **SECTION VIEW @ STRINGER 12 (VISITOR)**
SCALE:1/2"=1'-0"
STRINGER 1 MIRRORED



A = 2 X 10 ANODIZED ALUMINUM SEAT
B = MILL ALUMINUM SEAT BRACKET
C = 2 X 8 MILL ALUMINUM TONGUE & GROOVE 2001 TREAD – NOSE
D = 2 X 8 MILL ALUMINUM TONGUE & GROOVE TREAD (#69432)
E = 2 X 8 MILL ALUMINUM TONGUE & GROOVE 2001 TREAD – HEEL
F = 1 X 8 1/2 FLAT ANODIZED ALUMINUM RISER
G = 1 X 2 PAINTED ALUMINUM CONTRASTING NOSING (BLACK)
H = 2 X 4 MILL ALUM. INTERLOCK HALFSTEP – NOSE W/RISER
J = 2 X 8 MILL ALUM. INTERLOCK HALFSTEP – DECK
K = 4 1/2" MILL ALUMINUM HALFSTEP BRACKET
L = 4 1/2" ANODIZED ALUMINUM INTERLOCK STEP RISER

2 B20 **PLANK ARRANGMENT**
NOT TO SCALE

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017
FILE # 19-H10



SEE SEATING LAYOUT ON PAGE 2
FOR SECTION CUT LOCATIONS

1 B20 **SECTION VIEW (VISITOR)**
SCALE:1/2"=1'-0" 12"X24"

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

TYPE
SECTION VIEW (VISITOR)
12" RISE X 24" TREAD \ 22 ROWS

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

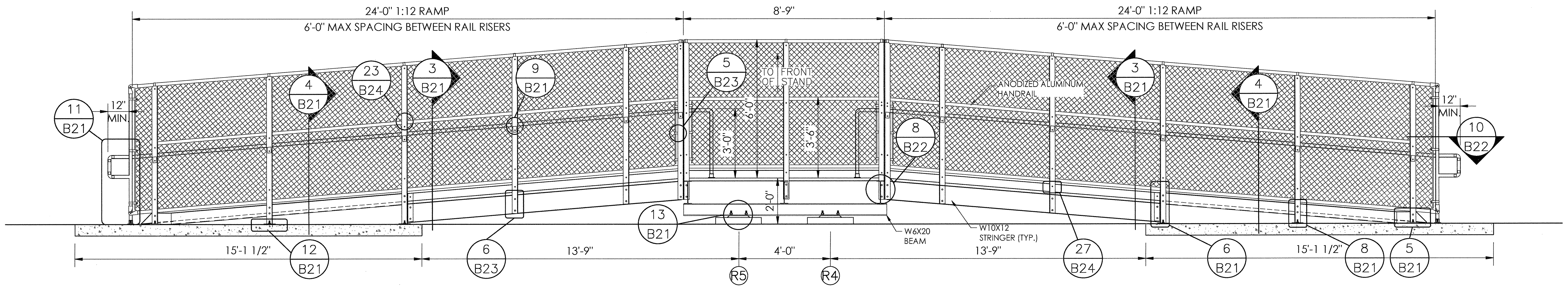
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS / FENCE AT GRADE
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	LIGHT POLE OBSTRUCTION WORK AROUND

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

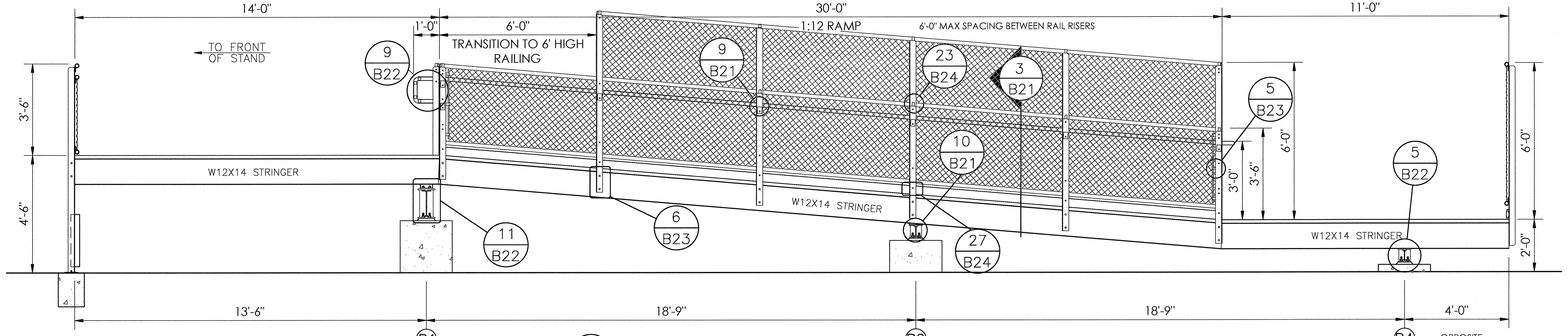
JOB NUMBER
14202

SHEET	OF
B-20	B-30

22" X 34" (11x17 = 1/2 indicated scale)



1 B21 RAMP DETAIL (HOME)
NOT TO SCALE

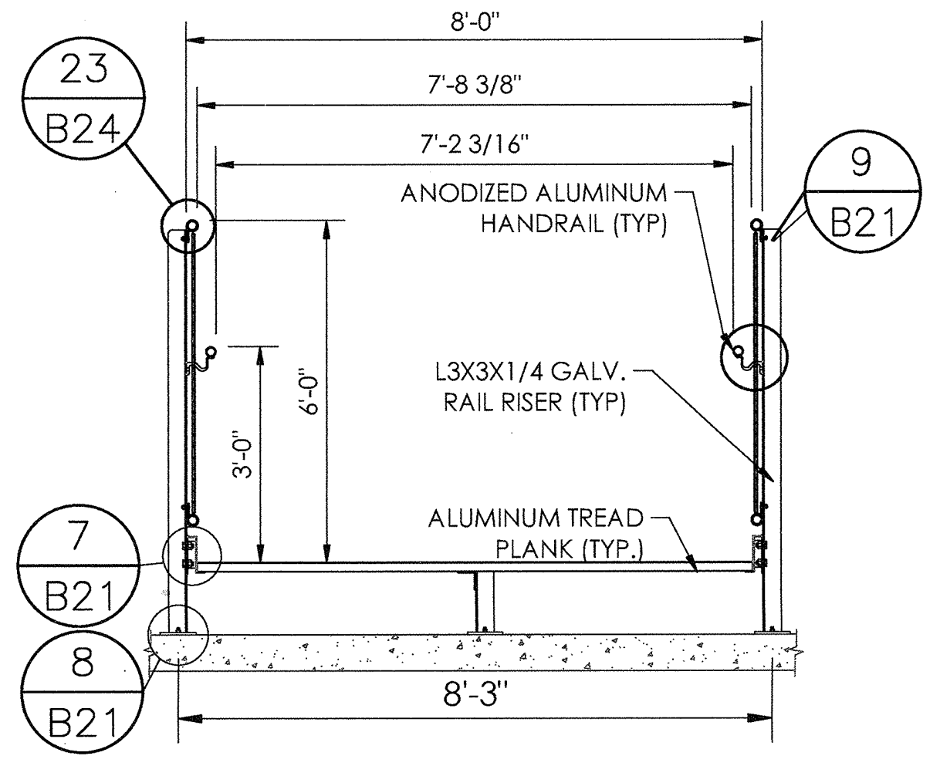


R1

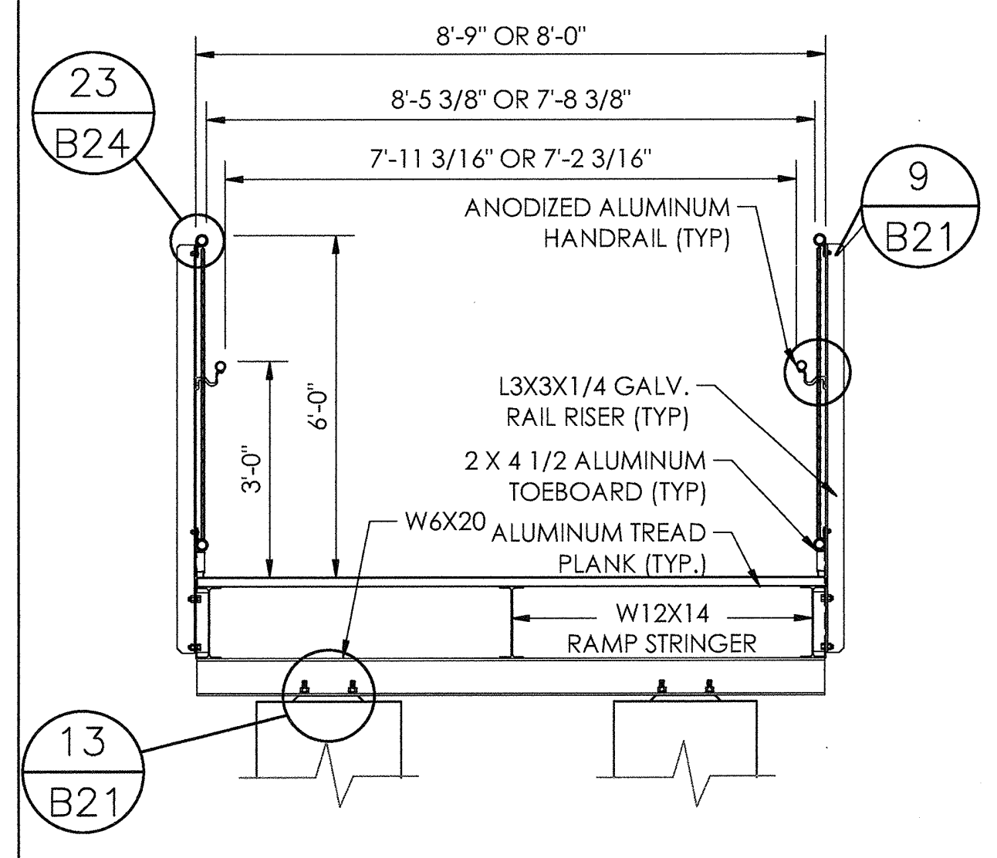
R2
R3

R4 ← OPPOSITE
R5 ← AS SHOWN

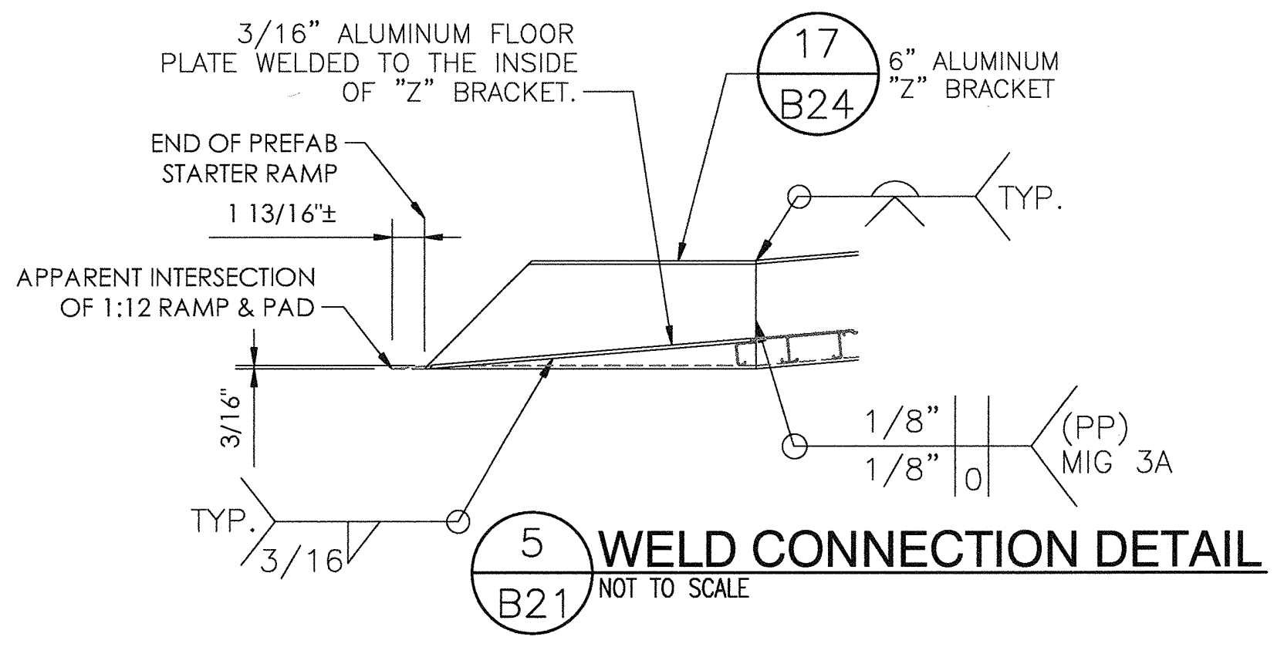
2 B21 RAMP DETAIL (HOME)
NOT TO SCALE


8'-0"
7'-8 3/8"
7'-2 3/16"
23 B24
9 B21
ANODIZED ALUMINUM HANDRAIL (TYP)
L3X3X1/4 GALV. RAIL RISER (TYP)
ALUMINUM TREAD PLANK (TYP.)
3'-0"
6'-0"
7 B21
8 B21
8'-3"

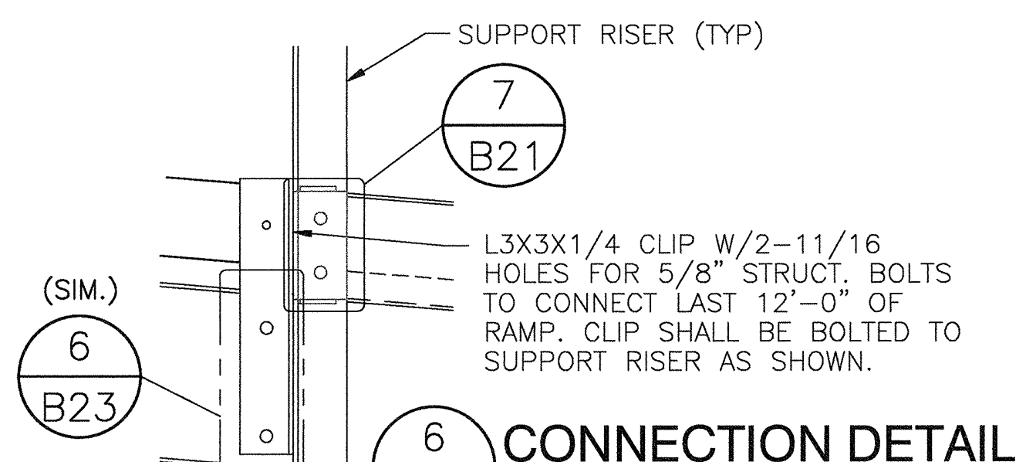
4 B21 RAMP SECTION DETAIL
NOT TO SCALE


8'-9" OR 8'-0"
8'-5 3/8" OR 7'-8 3/8"
7'-11 3/16" OR 7'-2 3/16"
23 B24
9 B21
ANODIZED ALUMINUM HANDRAIL (TYP)
L3X3X1/4 GALV. RAIL RISER (TYP)
2 X 4 1/2 ALUMINUM TOEBOARD (TYP)
W6X20
ALUMINUM TREAD PLANK (TYP.)
W12X14 RAMP STRINGER
3'-0"
6'-0"
13 B21

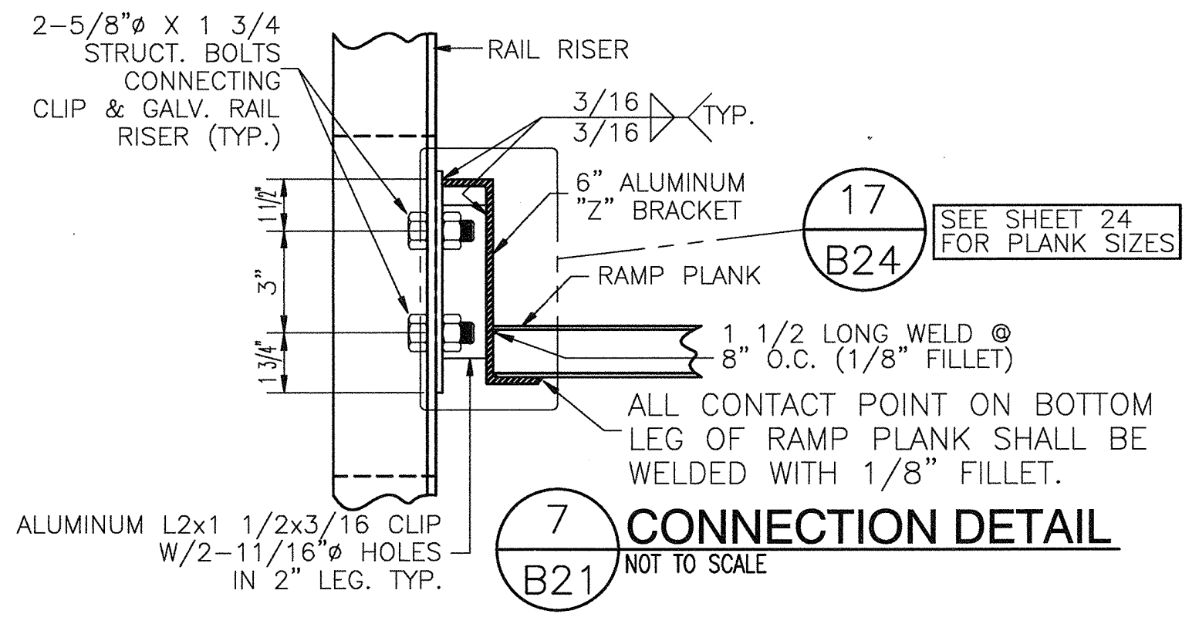
3 B21 RAMP SECTION DETAIL
NOT TO SCALE


3/16" ALUMINUM FLOOR PLATE WELDED TO THE INSIDE OF "Z" BRACKET.
17 B24
6" ALUMINUM "Z" BRACKET
END OF PREFAB STARTER RAMP
1 13/16"±
TYP.
APPARENT INTERSECTION OF 1:12 RAMP & PAD
3/16"
1/8"
1/8"
0
(PP) MIG 3A
TYP.
3/16

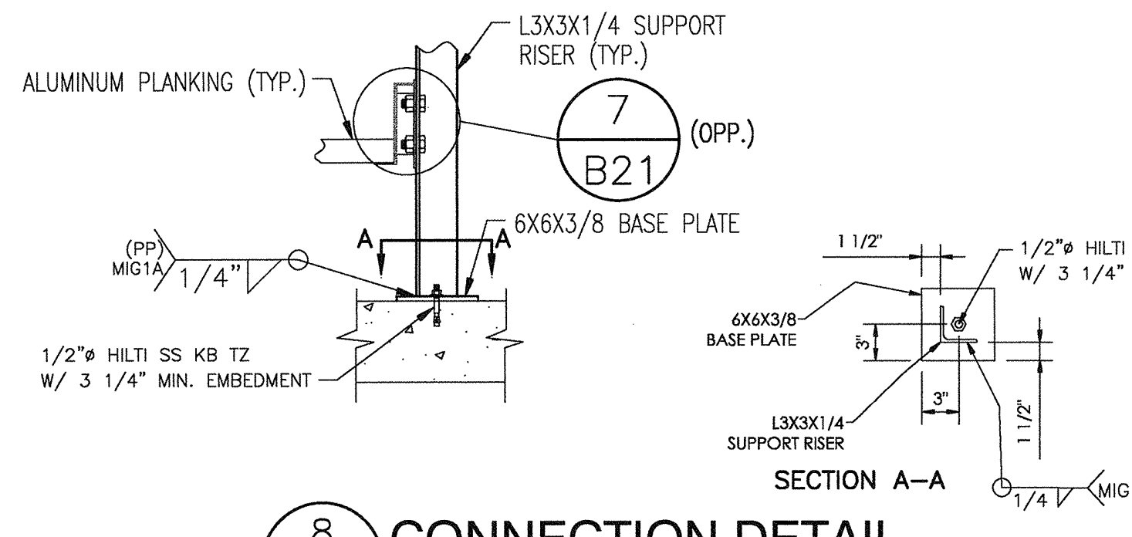
5 B21 WELD CONNECTION DETAIL
NOT TO SCALE


SUPPORT RISER (TYP)
7 B21
L3X3X1/4 CLIP W/2-11/16 HOLES FOR 5/8" STRUCT. BOLTS TO CONNECT LAST 12'-0" OF RAMP. CLIP SHALL BE BOLTED TO SUPPORT RISER AS SHOWN.
(SIM.)
6 B23

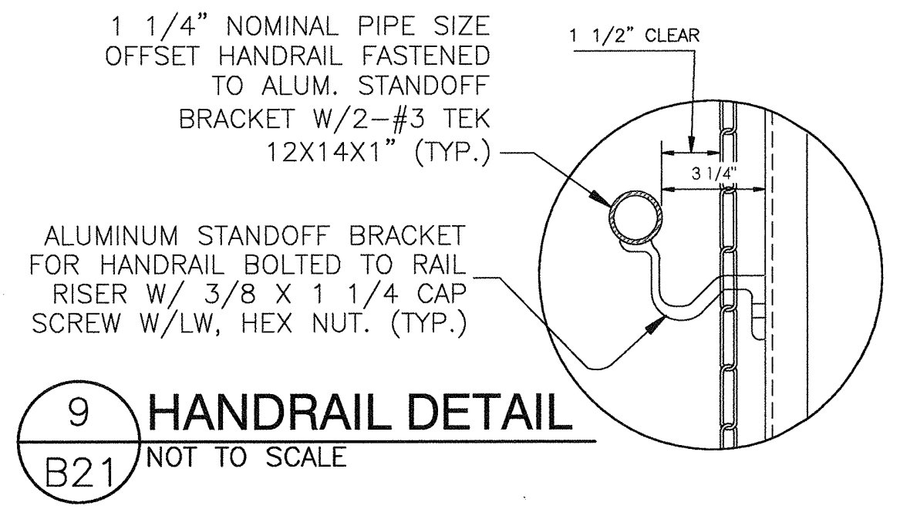
6 B21 CONNECTION DETAIL
NOT TO SCALE


2-5/8"ø X 1 3/4 STRUCT. BOLTS CONNECTING CLIP & GALV. RAIL RISER (TYP.)
RAIL RISER
3/16
3/16
TYP.
6" ALUMINUM "Z" BRACKET
17 B24
SEE SHEET 24 FOR PLANK SIZES
RAMP PLANK
1 1/2"
3"
1 3/4"
1 1/2 LONG WELD @ 8" O.C. (1/8" FILLET)
ALL CONTACT POINT ON BOTTOM LEG OF RAMP PLANK SHALL BE WELDED WITH 1/8" FILLET.
ALUMINUM L2x1 1/2x3/16 CLIP W/2-11/16"ø HOLES IN 2" LEG. TYP.

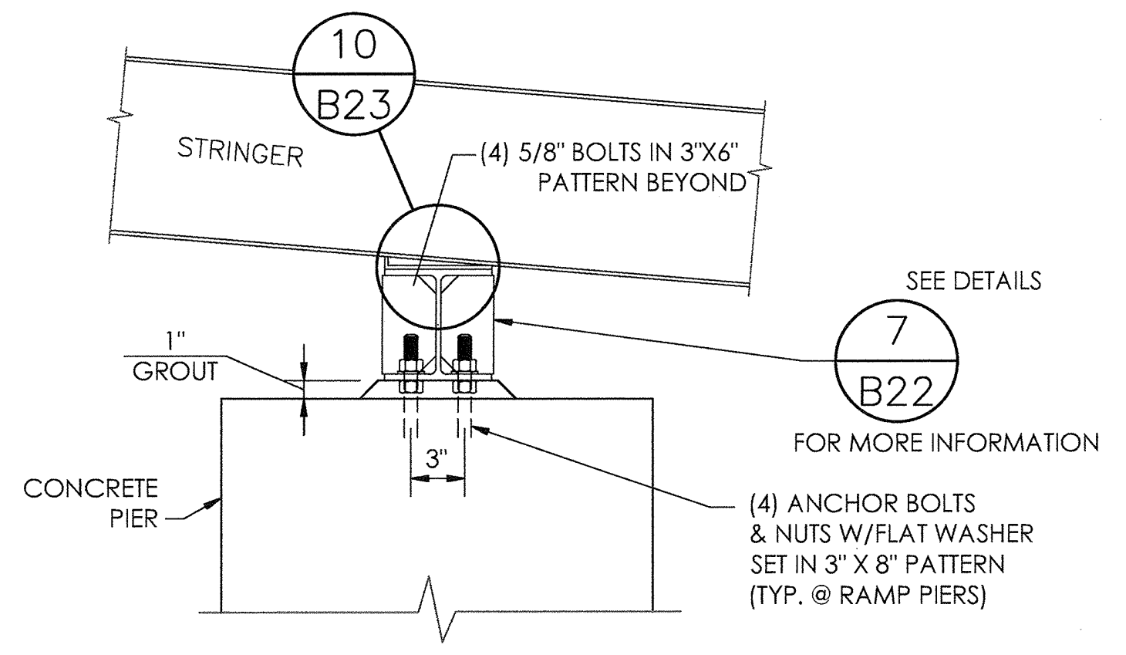
7 B21 CONNECTION DETAIL
NOT TO SCALE



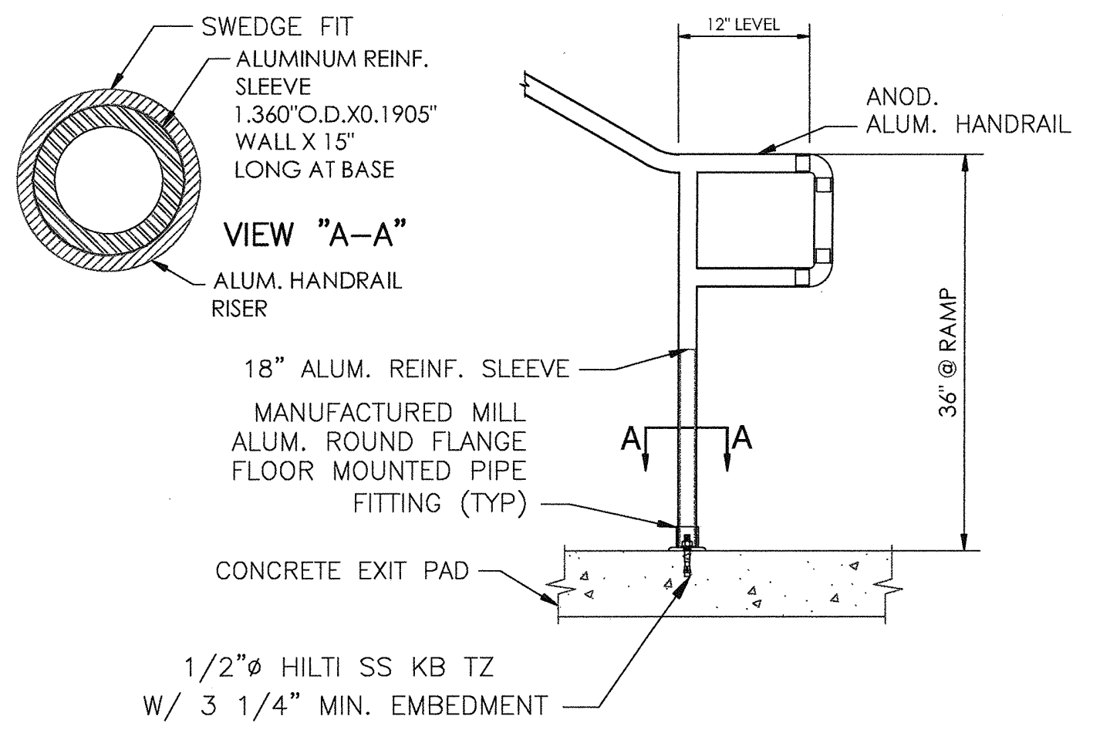
8 B21 CONNECTION DETAIL
NOT TO SCALE


1 1/4" NOMINAL PIPE SIZE OFFSET HANDRAIL FASTENED TO ALUM. STANDOFF BRACKET W/2-#3 TEK 12X14X1" (TYP.)
1 1/2" CLEAR
3 1/4"
ALUMINUM STANDOFF BRACKET FOR HANDRAIL BOLTED TO RAIL RISER W/ 3/8 X 1 1/4 CAP SCREW W/LW, HEX NUT. (TYP.)

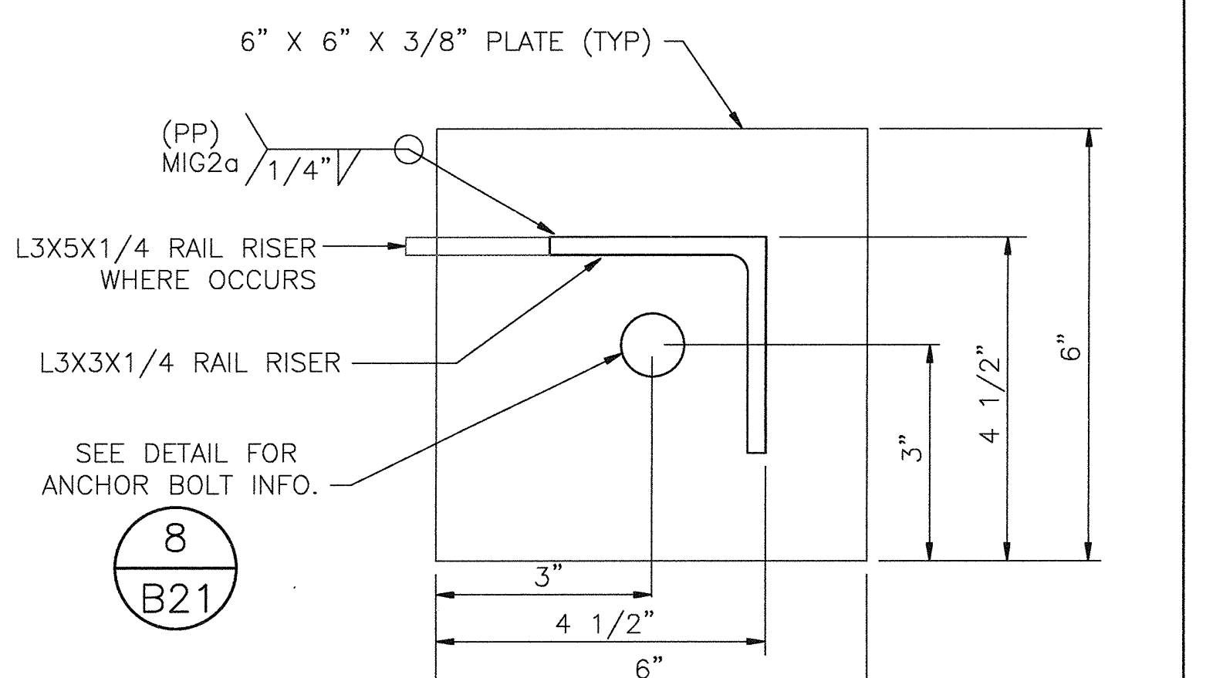
9 B21 HANDRAIL DETAIL
NOT TO SCALE


10 B23
STRINGER
(4) 5/8" BOLTS IN 3"X6" PATTERN BEYOND
SEE DETAILS
7 B22
FOR MORE INFORMATION
1" GROUT
3"
CONCRETE PIER
(4) ANCHOR BOLTS & NUTS W/FLAT WASHER SET IN 3" X 8" PATTERN (TYP. @ RAMP PIERS)

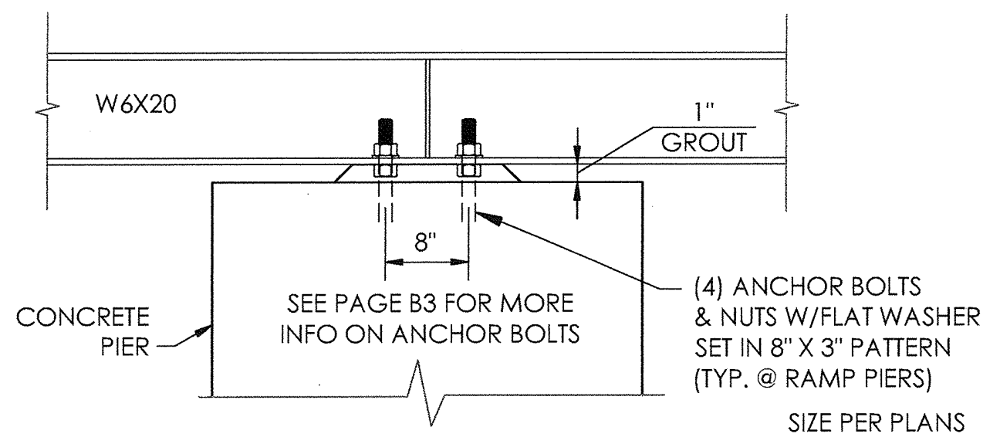
10 B21 RAMP BEAM DETAIL
NOT TO SCALE


SWEDGE FIT
ALUMINUM REINF. SLEEVE 1.360"O.D.X0.1905" WALL X 15" LONG AT BASE
VIEW "A–A"
ALUM. HANDRAIL RISER
12" LEVEL
ANOD. ALUM. HANDRAIL
36" @ RAMP
18" ALUM. REINF. SLEEVE
MANUFACTURED MILL ALUM. ROUND FLANGE FLOOR MOUNTED PIPE FITTING (TYP)
A
A
CONCRETE EXIT PAD
1/2"ø HILTI SS KB TZ W/ 3 1/4" MIN. EMBEDMENT

11 B21 HANDRAIL CONNECTION @ RAMPS DETAIL
NOT TO SCALE


6" X 6" X 3/8" PLATE (TYP)
(PP) MIG2a
1/4"
L3X5X1/4 RAIL RISER WHERE OCCURS
L3X3X1/4 RAIL RISER
SEE DETAIL FOR ANCHOR BOLT INFO.
8 B21
3"
4 1/2"
6"
3"
4 1/2"
6"

12 B21 BASE PLATE ATTACHMENT DETAIL
NOT TO SCALE


W6X20
1" GROUT
8"
CONCRETE PIER
SEE PAGE B3 FOR MORE INFO ON ANCHOR BOLTS
(4) ANCHOR BOLTS & NUTS W/FLAT WASHER SET IN 8" X 3" PATTERN (TYP. @ RAMP PIERS)
SIZE PER PLANS

13 B21 RAMP BEAM DETAIL
NOT TO SCALE

ALL CONCRETE & GRADE WORK BY OTHERS

ALL DIMENSIONS & ELEVATIONS TO BE FIELD VERIFIED BEFORE FABRICATION

GRADE SHOULD NOT COVER TOP OF ANY PIER OR GRADE BEAM AND SHOULD BE WORKED TO MATCH EXIT STEP & RAMP PAD ELEVATIONS

A# 03-117117

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DATE FEB 0 3 2017

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GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

TYPE
EXIT DETAIL

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
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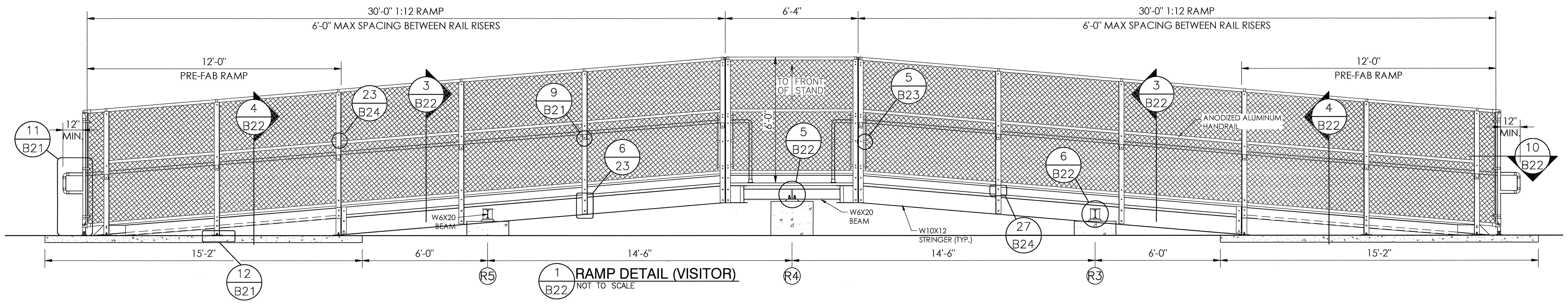
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	MODIFIED RAMP

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

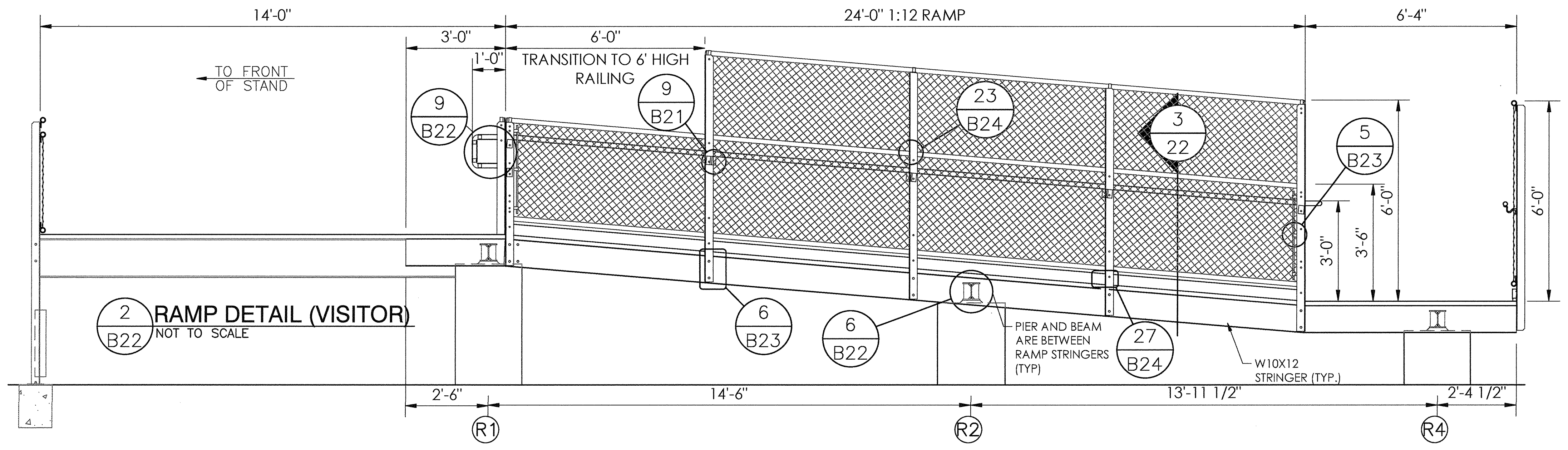
JOB NUMBER
14202

SHEET	OF
B-21	B-30

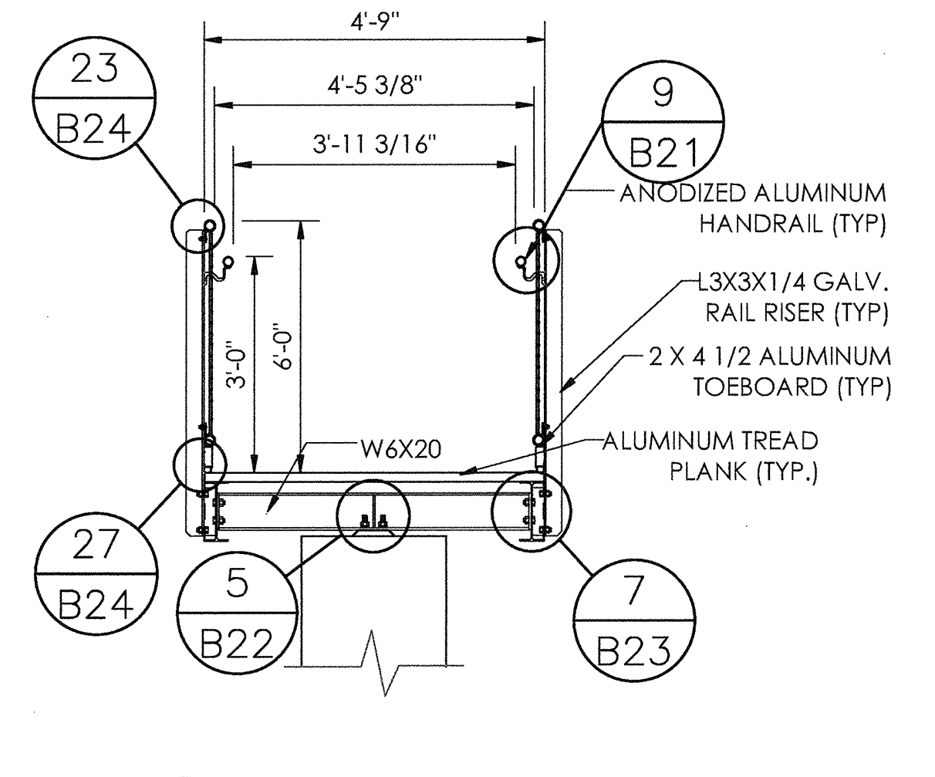
22" X 34" (11x17 = 1/2 indicated scale)



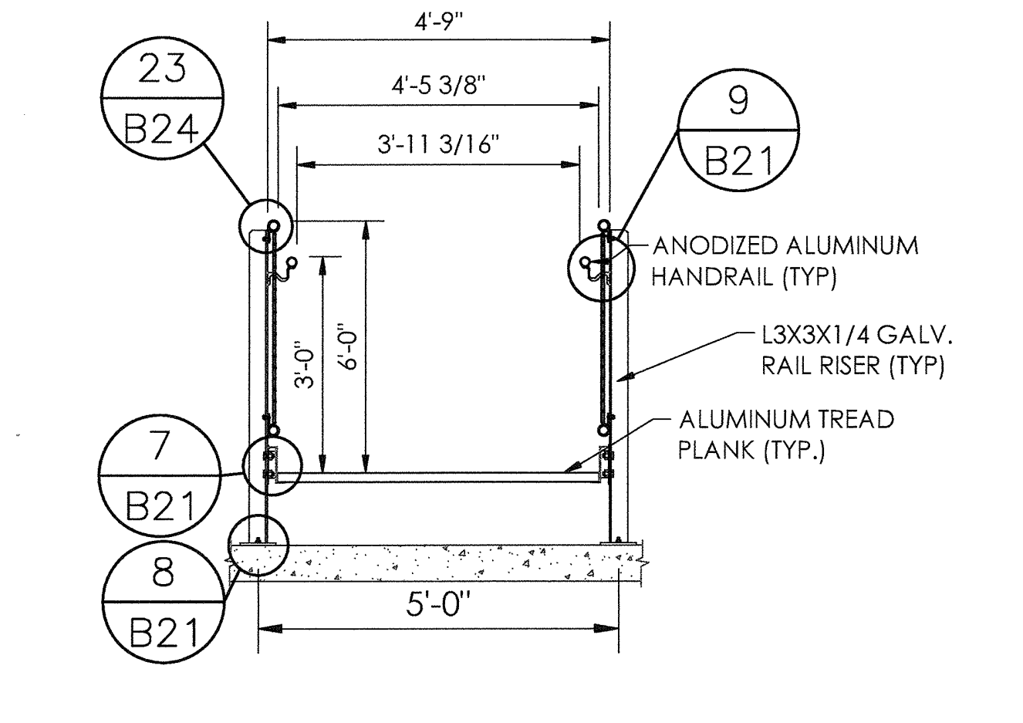
1 RAMP DETAIL (VISITOR)
B22 NOT TO SCALE



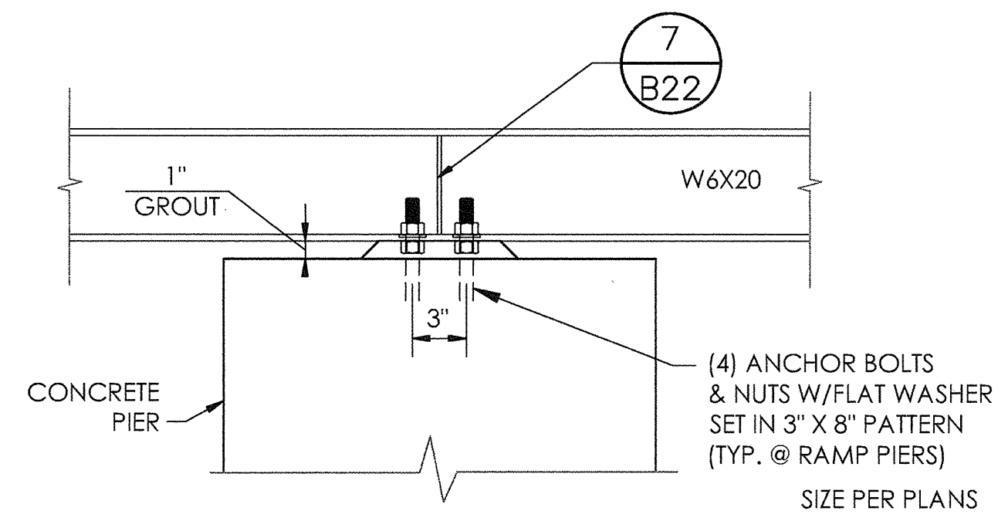
2 RAMP DETAIL (VISITOR)
B22 NOT TO SCALE


4'-9"
4'-5 3/8"
3'-11 3/16"
ANODIZED ALUMINUM HANDRAIL (TYP)
L3X3X1/4 GALV. RAIL RISER (TYP)
2 X 4 1/2 ALUMINUM TOEBOARD (TYP)
ALUMINUM TREAD PLANK (TYP.)
W6X20
3'-0"
6'-0"
23 B24
9 B21
27 B24
5 B22
7 B23

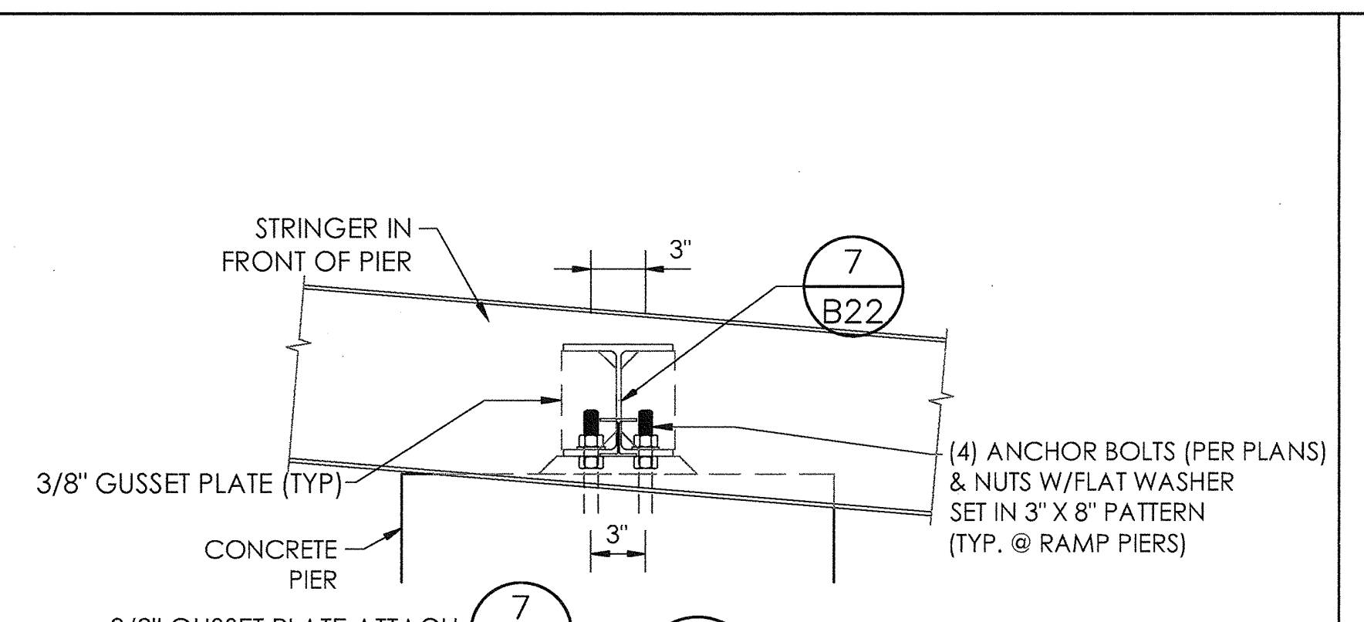
3 RAMP SECTION DETAIL
B22 NOT TO SCALE


4'-9"
4'-5 3/8"
3'-11 3/16"
ANODIZED ALUMINUM HANDRAIL (TYP)
L3X3X1/4 GALV. RAIL RISER (TYP)
ALUMINUM TREAD PLANK (TYP.)
3'-0"
6'-0"
5'-0"
23 B24
9 B21
7 B21
8 B21

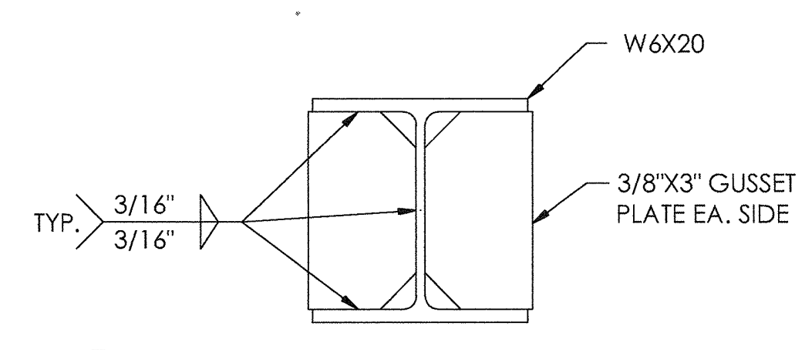
4 RAMP SECTION DETAIL
B22 NOT TO SCALE


7 B22
1" GROUT
W6X20
3"
CONCRETE PIER
(4) ANCHOR BOLTS & NUTS W/FLAT WASHER SET IN 3" X 8" PATTERN (TYP. @ RAMP PIERS)
SIZE PER PLANS

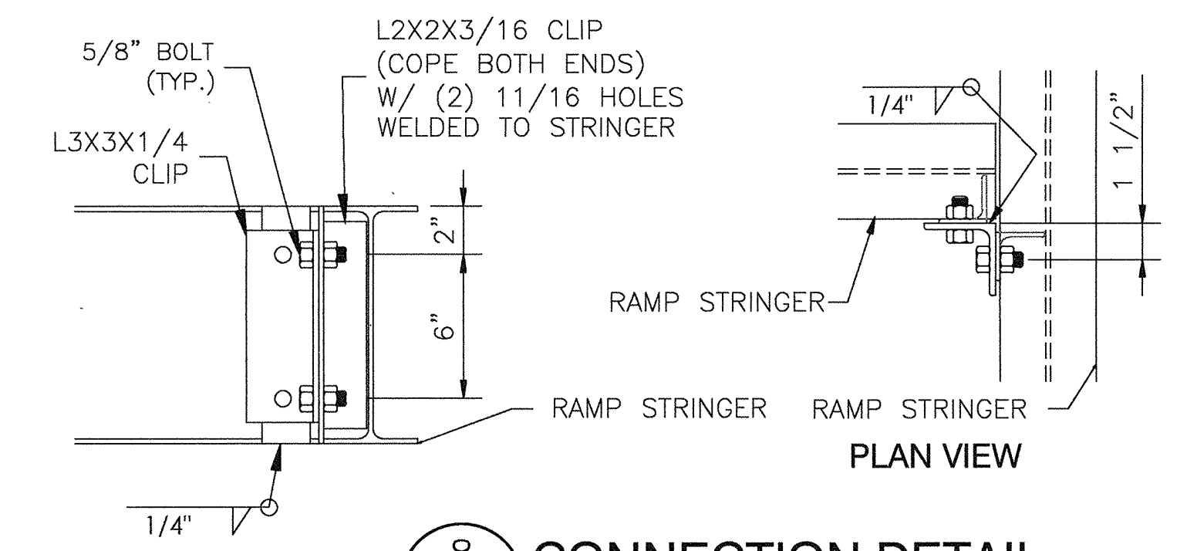
5 RAMP BEAM DETAIL
B22 NOT TO SCALE


STRINGER IN FRONT OF PIER
3"
7 B22
3/8" GUSSET PLATE (TYP)
CONCRETE PIER
(4) ANCHOR BOLTS (PER PLANS) & NUTS W/FLAT WASHER SET IN 3" X 8" PATTERN (TYP. @ RAMP PIERS)
3"
3/8" GUSSET PLATE ATTACH
7 B22

6 RAMP BEAM DETAIL
B22 NOT TO SCALE

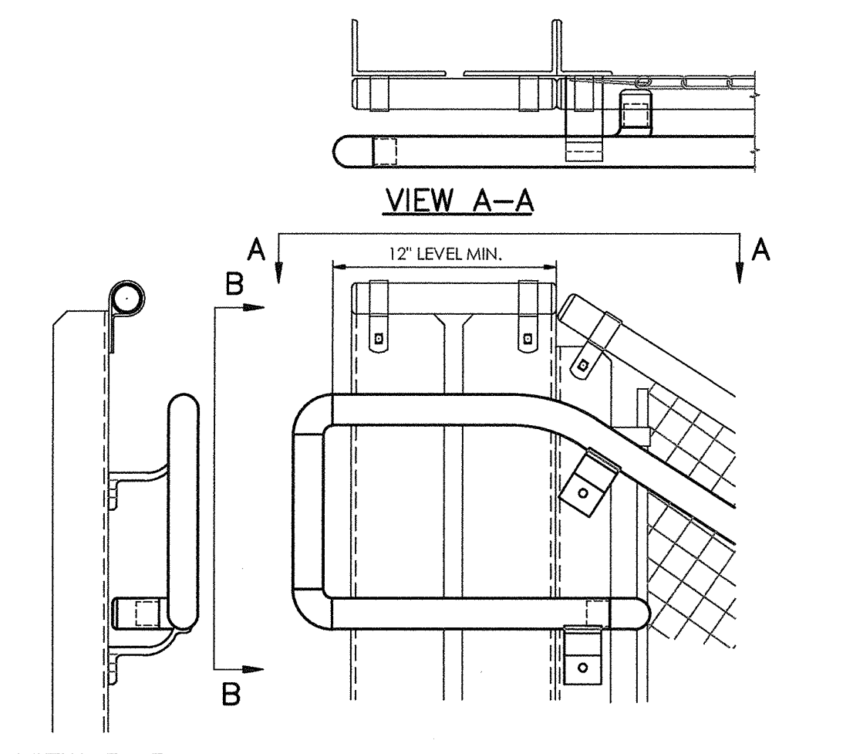


7 GUSSET PLATE DETAIL
B22 NOT TO SCALE

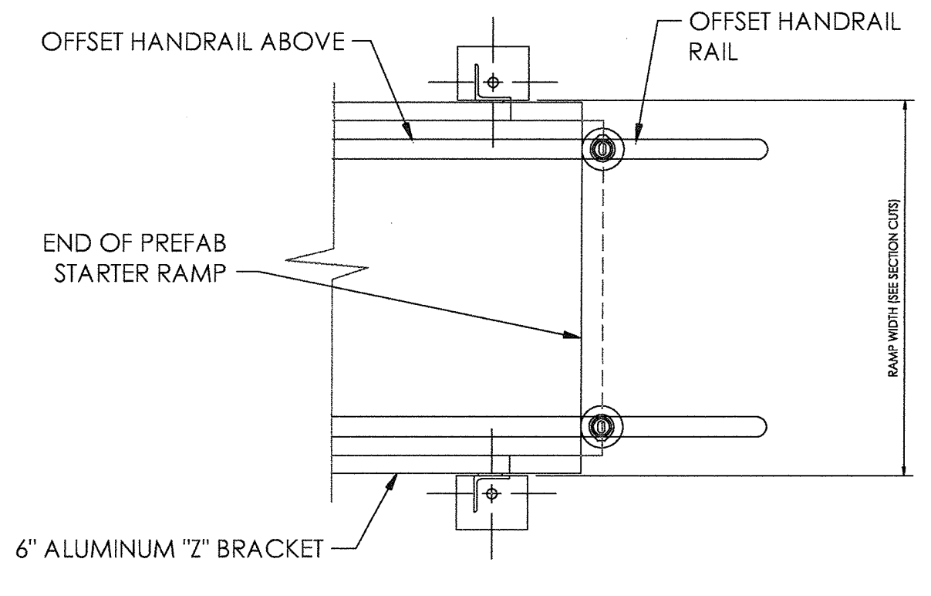


8 CONNECTION DETAIL
B22 NOT TO SCALE

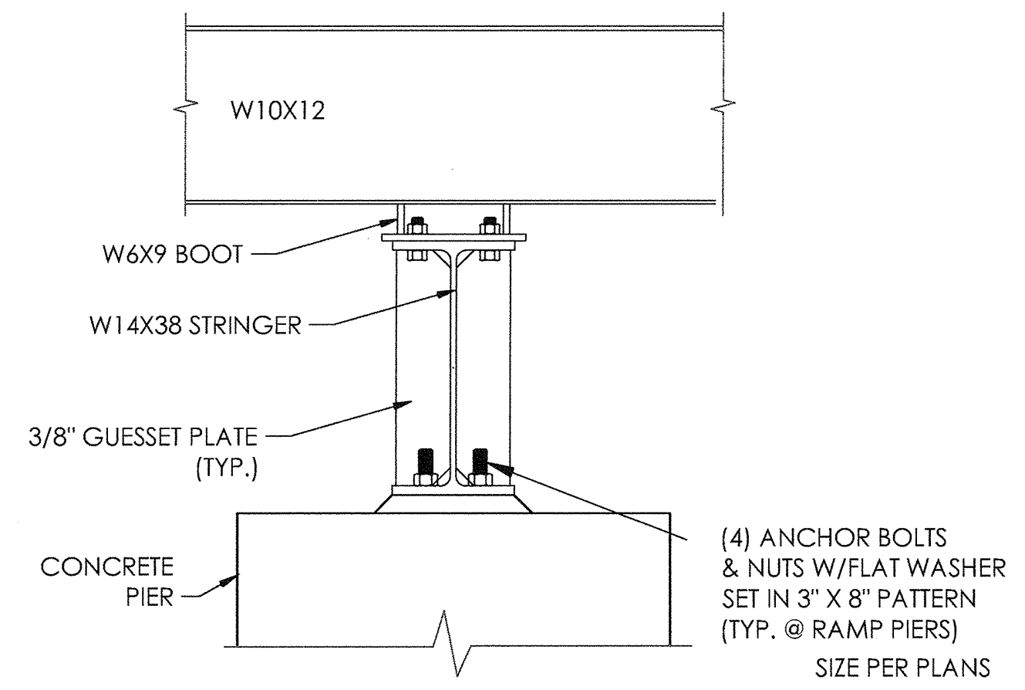
NOTE: INSIDE CONNECTION SHOWN. OUTSIDE CONNECTION IS SIMILAR.



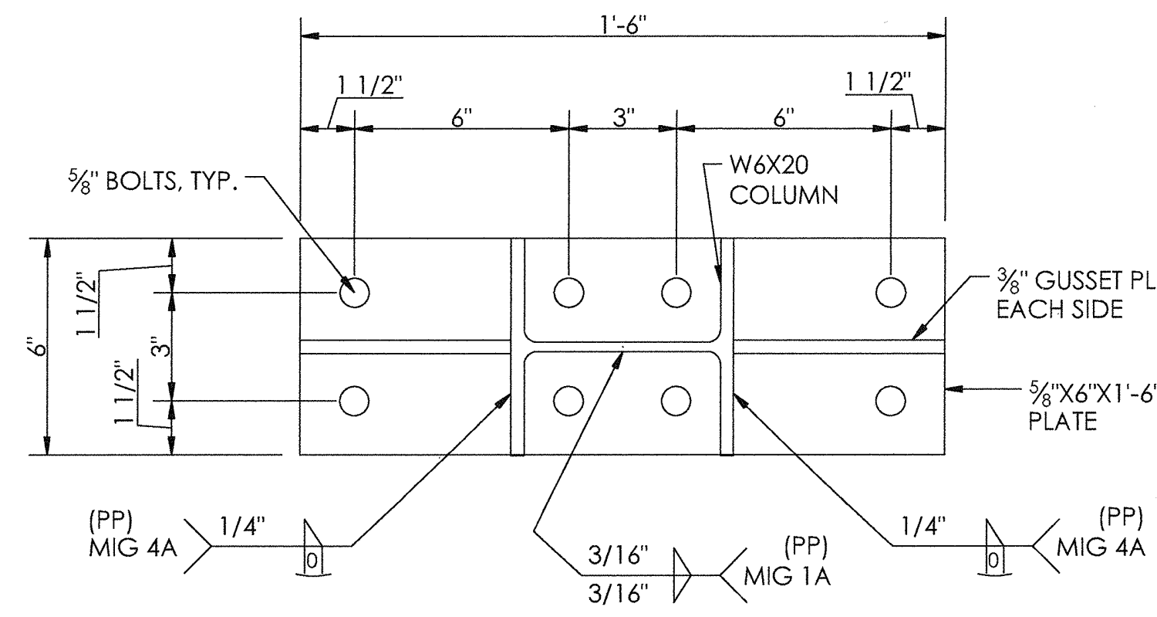
9 HANDRAIL TERMINATION DETAIL
B22 NOT TO SCALE



10 END OF RAMP DETAIL
B22 NOT TO SCALE



11 BOOT DETAIL @ RAMP STRINGER
B22 NOT TO SCALE



12 RAMP COLUMN CONNECTION DETAIL
B22 NOT TO SCALE

ALL CONCRETE & GRADE WORK BY OTHERS

ALL DIMENSIONS & ELEVATIONS TO BE FIELD VERIFIED BEFORE FABRICATION

GRADE SHOULD NOT COVER TOP OF ANY PIER OR GRADE BEAM AND SHOULD BE WORKED TO MATCH EXIT STEP & RAMP PAD ELEVATIONS

A# 03-117117
AC N.N. FLS SS
DATE FEB 0 3 2017

FILE # 19-H10

1 — DETAIL NUMBER
10 — SHEET SHOWN ON

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7415 N. PALM AVENUE SUITE 100 • FRESNO, CALIFORNIA
PH: (559)449-8444 • FAX: (559)449-8404

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801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
EXIT DETAIL

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

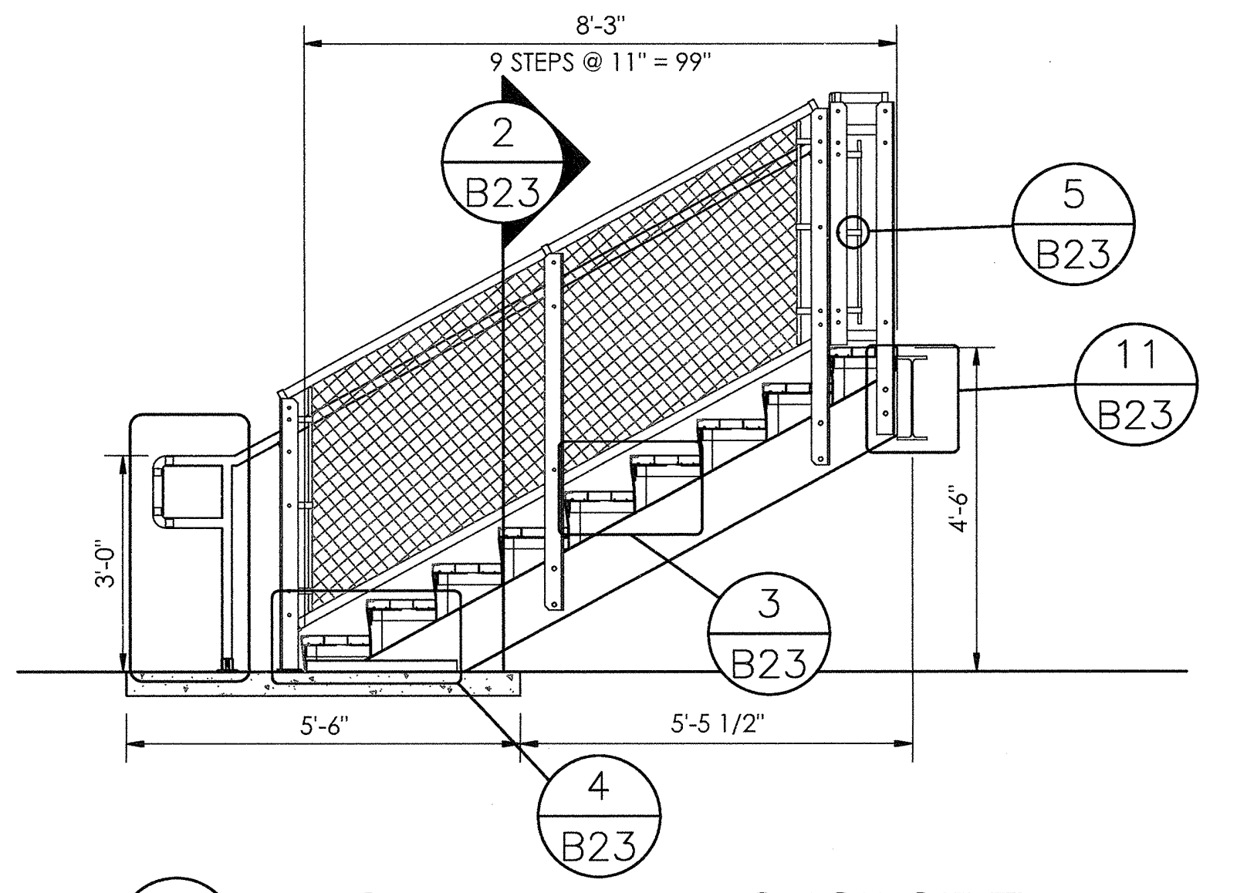
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	MODIFIED RAMP

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

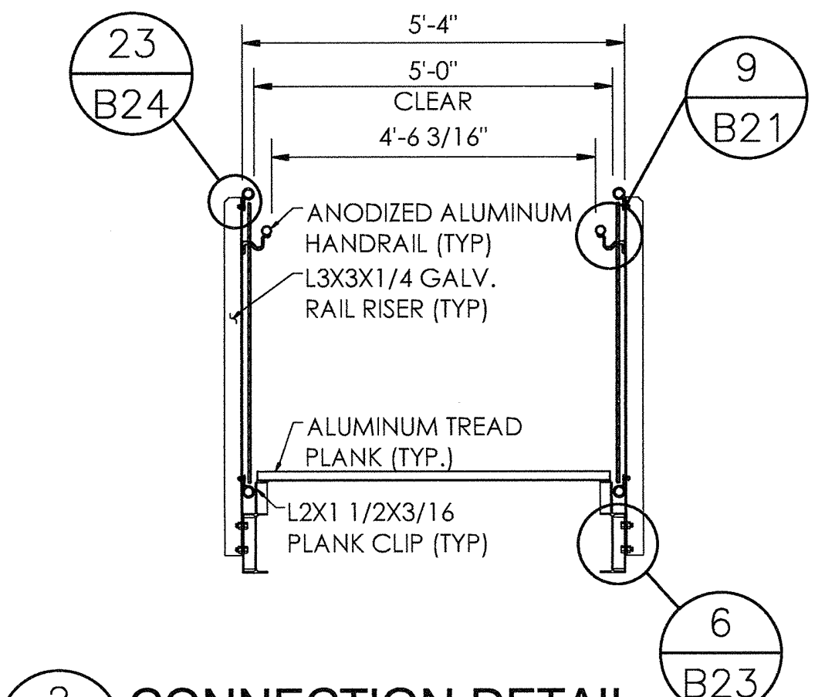
JOB NUMBER
14202

SHEET	OF
B-22	B-30

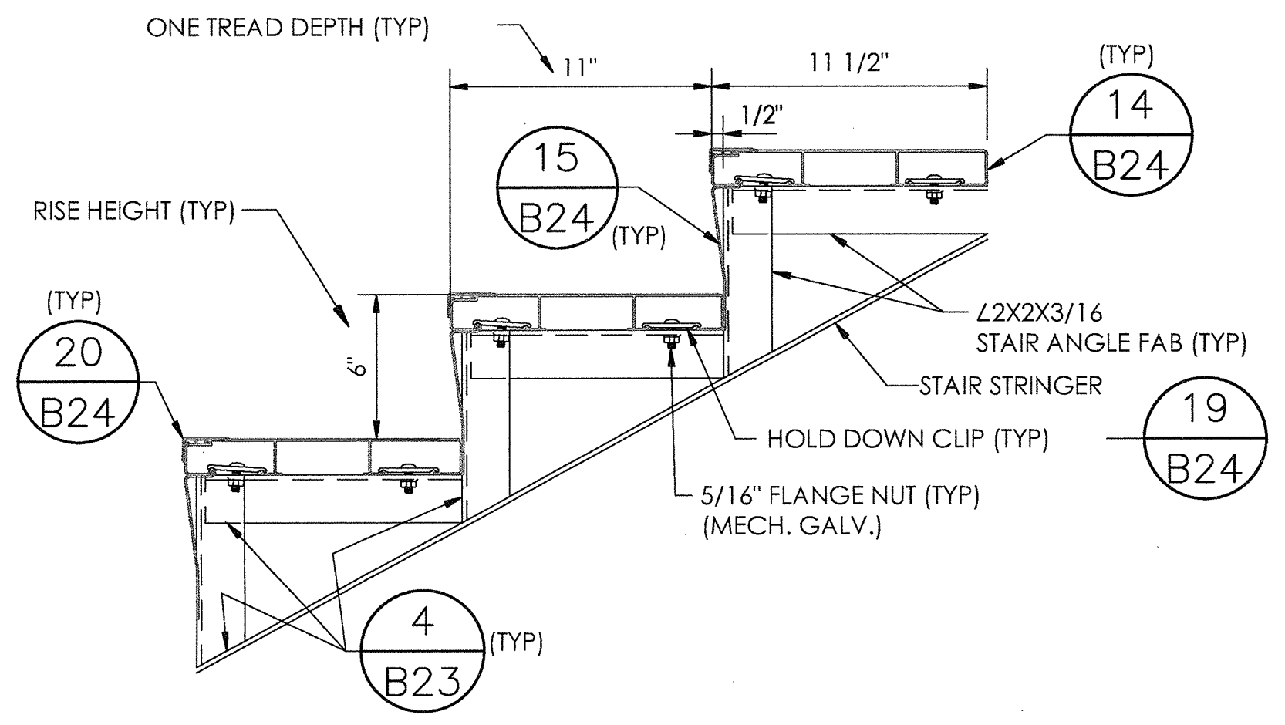
22" X 34" (11x17 = 1/2 indicated scale)



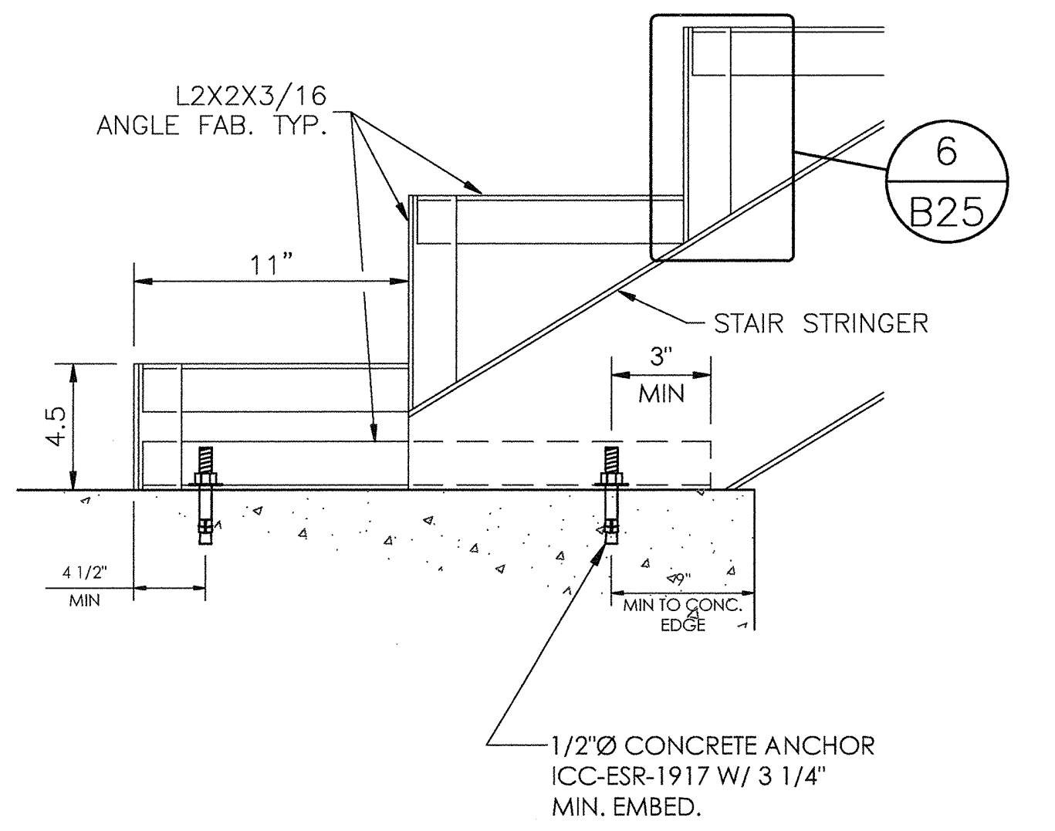
1 / B23 EXIT STAIR DETAIL (VISITOR SIDE)
NOT TO SCALE


23 / B24
9 / B21
5'-4"
5'-0"
CLEAR
4'-6 3/16"
ANODIZED ALUMINUM HANDRAIL (TYP)
L3X3X1/4 GALV. RAIL RISER (TYP)
ALUMINUM TREAD PLANK (TYP.)
L2X1 1/2X3/16 PLANK CLIP (TYP)
6 / B23

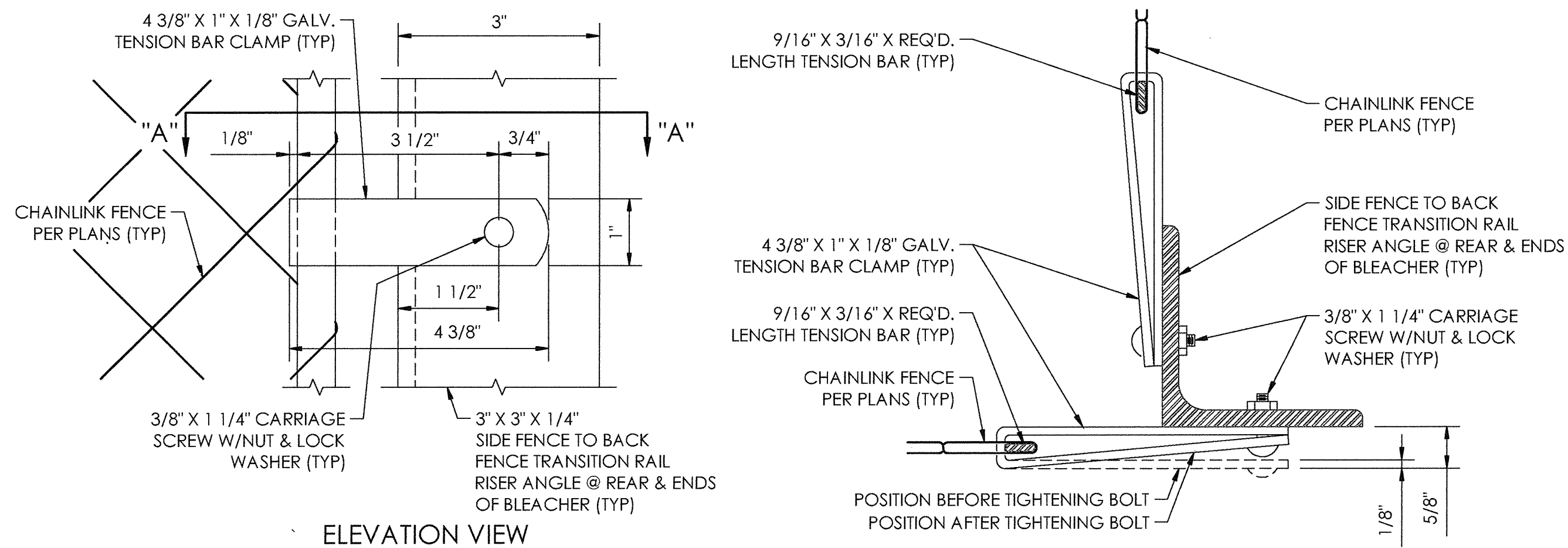
2 / B23 CONNECTION DETAIL
NOT TO SCALE



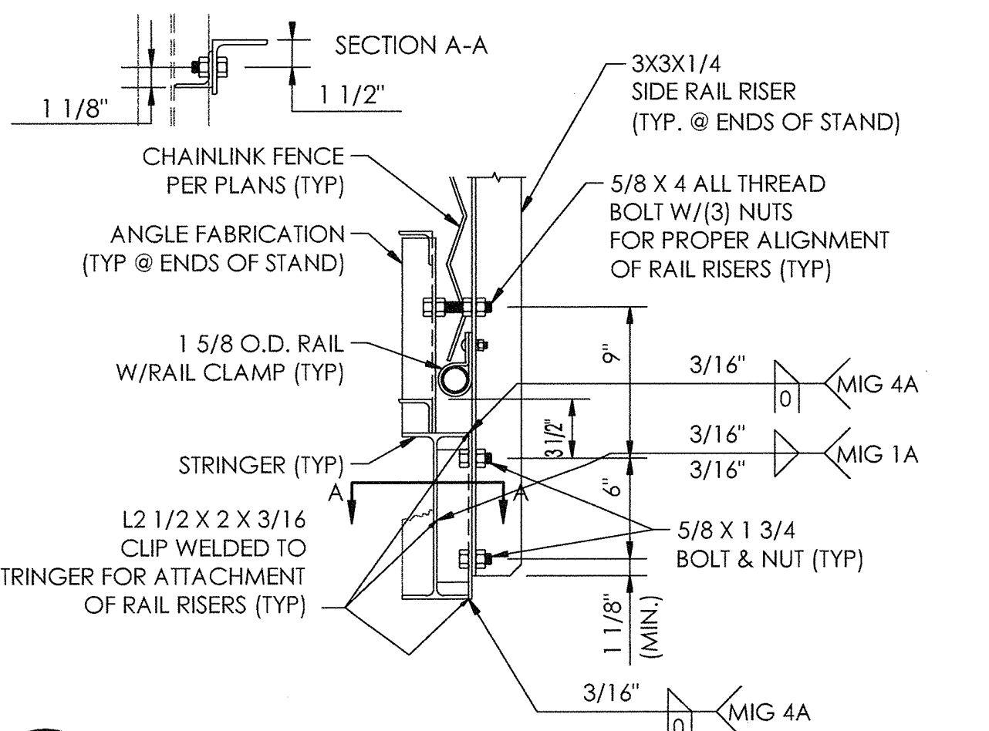
3 / B23 EXIT STEP (TREAD) DETAIL
NOT TO SCALE


L2X2X3/16 ANGLE FAB. TYP.
6 / B25
11"
STAIR STRINGER
3" MIN
4.5
4 1/2" MIN
9" MIN TO CONC. EDGE
1/2"Ø CONCRETE ANCHOR ICC-ESR-1917 W/ 3 1/4" MIN. EMBED.

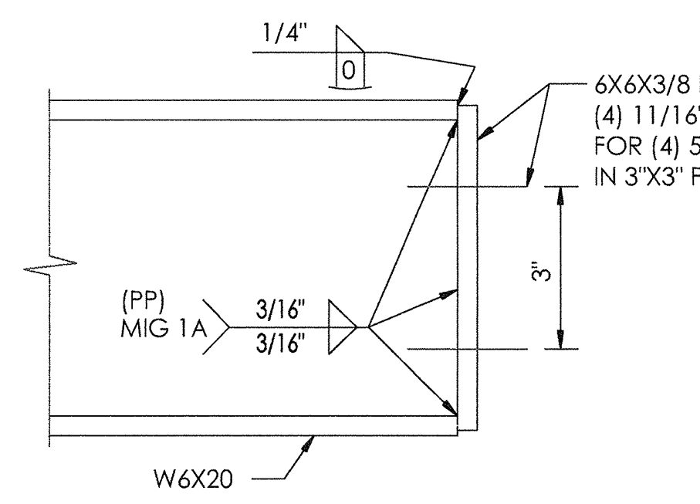
4 / B23 CONNECTION DETAIL
NOT TO SCALE


4 3/8" X 1" X 1/8" GALV. TENSION BAR CLAMP (TYP)
3"
"A"
"A"
1/8"
3 1/2"
3/4"
1"
CHAINLINK FENCE PER PLANS (TYP)
1 1/2"
4 3/8"
3/8" X 1 1/4" CARRIAGE SCREW W/NUT & LOCK WASHER (TYP)
3" X 3" X 1/4" SIDE FENCE TO BACK FENCE TRANSITION RAIL RISER ANGLE @ REAR & ENDS OF BLEACHER (TYP)
ELEVATION VIEW
9/16" X 3/16" X REQ'D. LENGTH TENSION BAR (TYP)
CHAINLINK FENCE PER PLANS (TYP)
SIDE FENCE TO BACK FENCE TRANSITION RAIL RISER ANGLE @ REAR & ENDS OF BLEACHER (TYP)
4 3/8" X 1" X 1/8" GALV. TENSION BAR CLAMP (TYP)
9/16" X 3/16" X REQ'D. LENGTH TENSION BAR (TYP)
3/8" X 1 1/4" CARRIAGE SCREW W/NUT & LOCK WASHER (TYP)
CHAINLINK FENCE PER PLANS (TYP)
POSITION BEFORE TIGHTENING BOLT
POSITION AFTER TIGHTENING BOLT
1/8"
5/8"
SECTION "A-A"

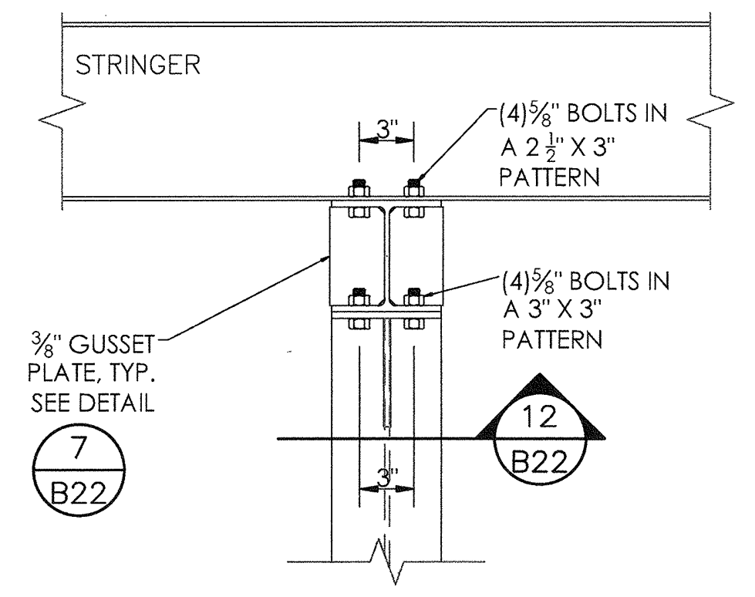
5 / B23 TENSION BAR CLAMP DETAIL
NOT TO SCALE


SECTION A-A
1 1/8"
1 1/2"
3X3X1/4 SIDE RAIL RISER (TYP. @ ENDS OF STAND)
CHAINLINK FENCE PER PLANS (TYP)
5/8 X 4 ALL THREAD BOLT W/(3) NUTS FOR PROPER ALIGNMENT OF RAIL RISERS (TYP)
ANGLE FABRICATION (TYP @ ENDS OF STAND)
1 5/8 O.D. RAIL W/RAIL CLAMP (TYP)
9"
3/16" MIG 4A
3 1/2"
3/16" 3/16" MIG 1A
STRINGER (TYP)
A
A
6"
5/8 X 1 3/4 BOLT & NUT (TYP)
L2 1/2 X 2 X 3/16 CLIP WELDED TO STRINGER FOR ATTACHMENT OF RAIL RISERS (TYP)
1 1/8" (MIN.)
3/16" MIG 4A

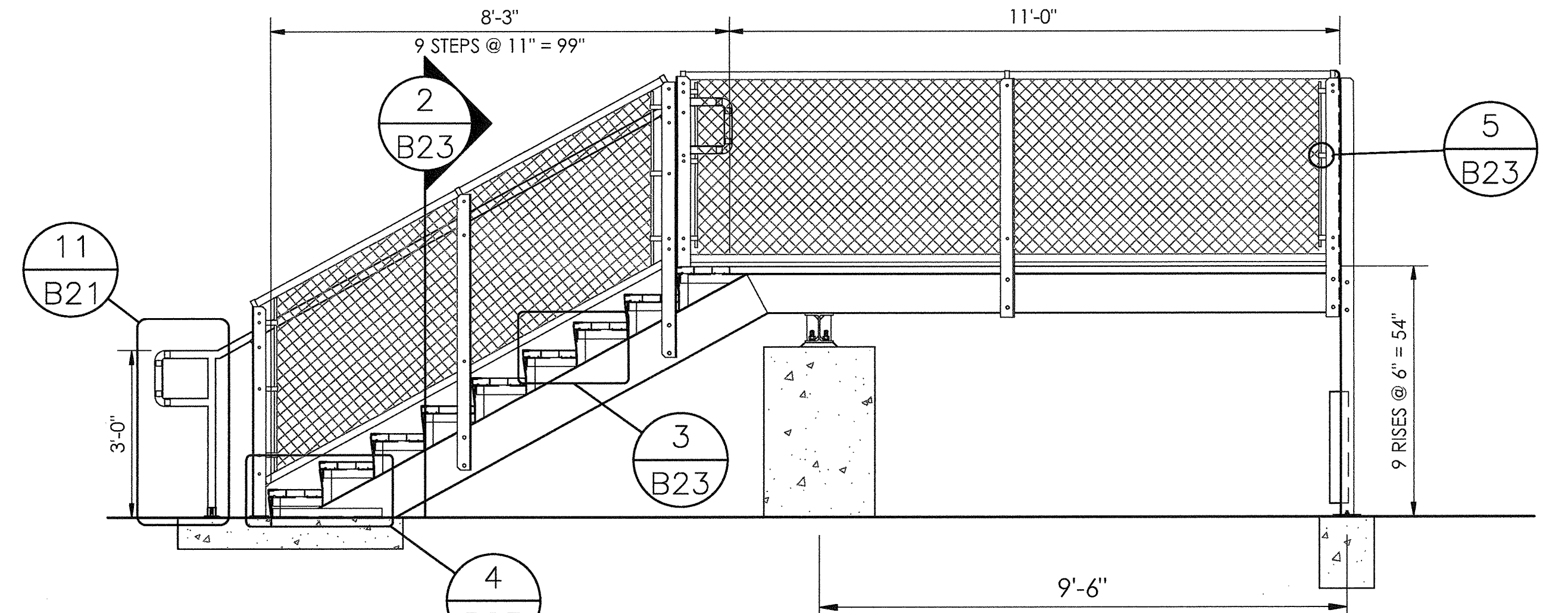
6 / B23 SIDE RAIL RISER ATTACHMENT DETAIL
NOT TO SCALE


1/4"
6X6X3/8 PLATE W/ (4) 11/16"Ø HOLES FOR (4) 5/8"Ø BOLTS IN 3"X3" PATTERN
(PP) MIG 1A
3/16"
3/16"
3"
W6X20

7 / B23 W6X20 W/ 6X6X3/8 PLATE WELD DETAIL
NOT TO SCALE

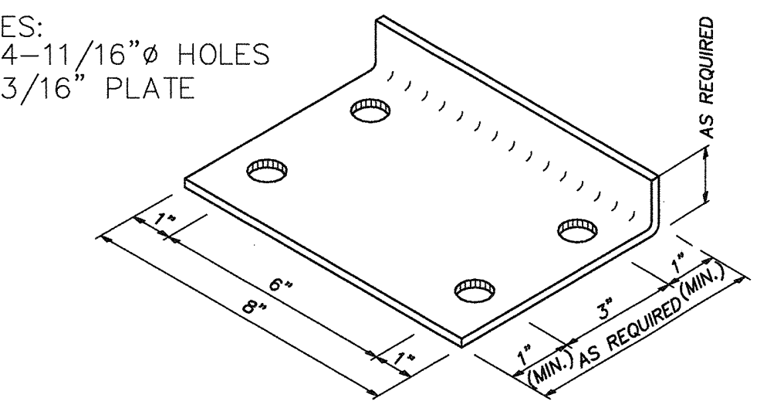

STRINGER
3"
(4)⅝" BOLTS IN A 2½" X 3" PATTERN
(4)⅝" BOLTS IN A 3" X 3" PATTERN
⅜" GUSSET PLATE, TYP. SEE DETAIL
7 / B22
12 / B22
3"

8 / B23 RAMP BEAM DETAIL
NOT TO SCALE

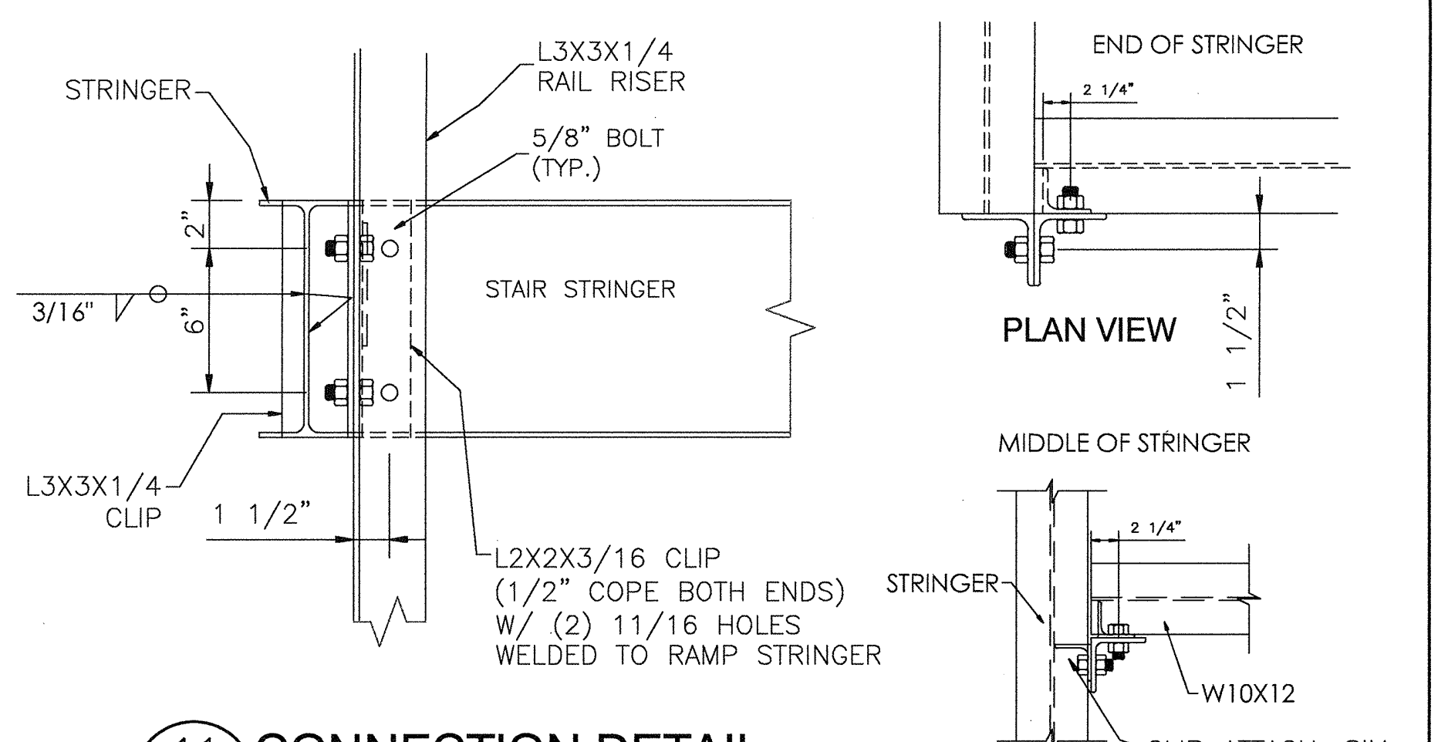


9 / B23 EXIT STAIR DETAIL (HOME SIDE)
NOT TO SCALE

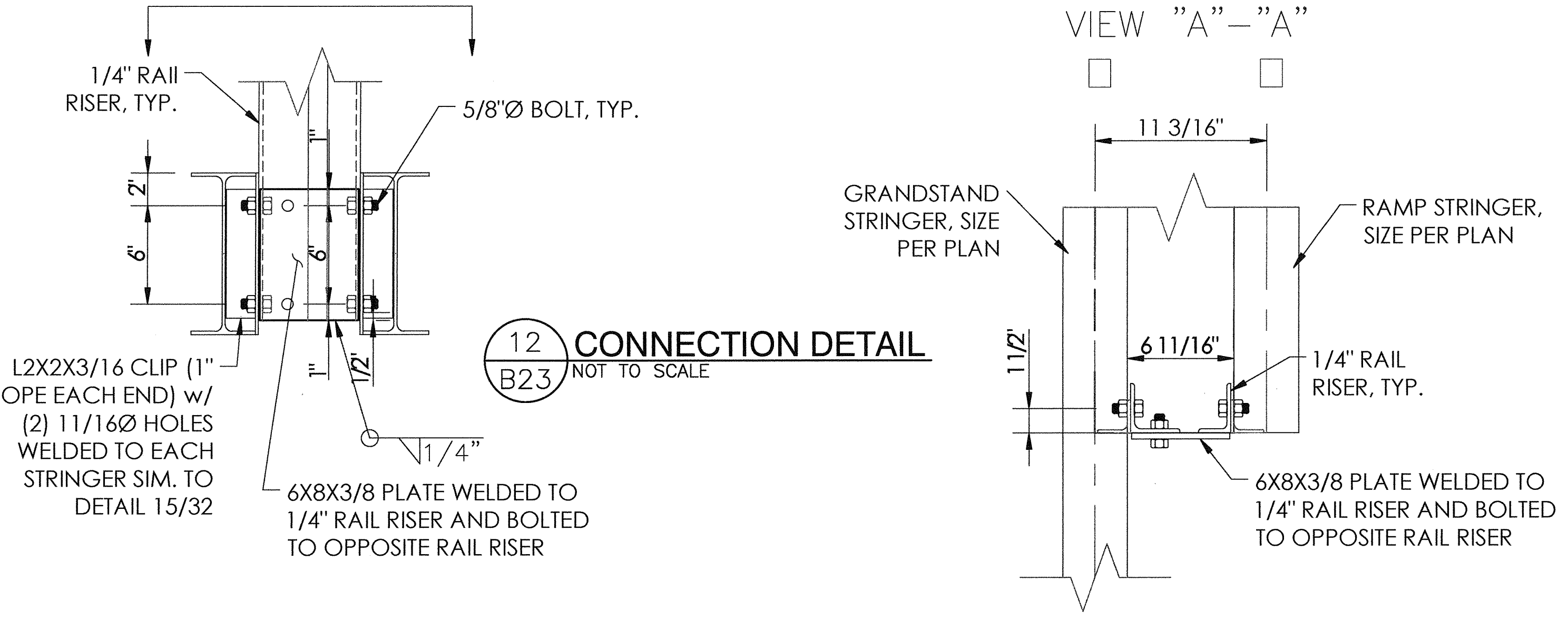
NOTES:
1. 4–11/16"ø HOLES
2. 3/16" PLATE



10 / B23 RAMP STRINGER CLIP DETAIL
NOT TO SCALE



11 / B23 CONNECTION DETAIL
NOT TO SCALE


"A"
"A"
1/4" RAIl RISER, TYP.
5/8"Ø BOLT, TYP.
2'
6"
1"
6"
1"
1/2"
1/4"
L2X2X3/16 CLIP (1" COPE EACH END) w/ (2) 11/16Ø HOLES WELDED TO EACH STRINGER SIM. TO DETAIL 15/32
6X8X3/8 PLATE WELDED TO 1/4" RAIL RISER AND BOLTED TO OPPOSITE RAIL RISER
VIEW "A"–"A"
11 3/16"
GRANDSTAND STRINGER, SIZE PER PLAN
RAMP STRINGER, SIZE PER PLAN
11/2"
6 11/16"
1/4" RAIL RISER, TYP.
6X8X3/8 PLATE WELDED TO 1/4" RAIL RISER AND BOLTED TO OPPOSITE RAIL RISER

12 / B23 CONNECTION DETAIL
NOT TO SCALE

ALL CONCRETE & GRADE WORK BY OTHERS

ALL DIMENSIONS & ELEVATIONS TO BE FIELD VERIFIED BEFORE FABRICATION

GRADE SHOULD NOT COVER TOP OF ANY PIER OR GRADE BEAM AND SHOULD BE WORKED TO MATCH EXIT STEP & RAMP PAD ELEVATIONS

A# 03-117117

AC N.N. FLS ENJ SS

DATE FEB 0 3 2017

FILE # 19-H10

DETAIL NUMBER
SHEET SHOWN ON

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
EXIT DETAIL

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

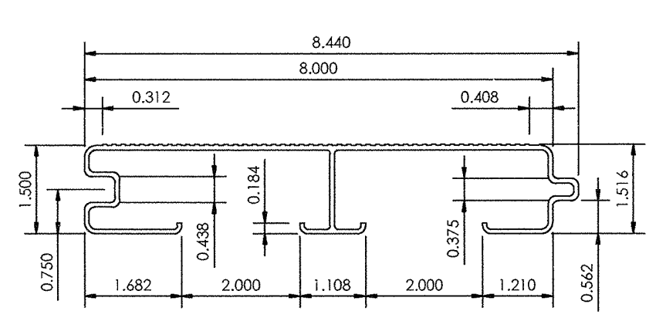
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	CHANGED DETAIL 1/23
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

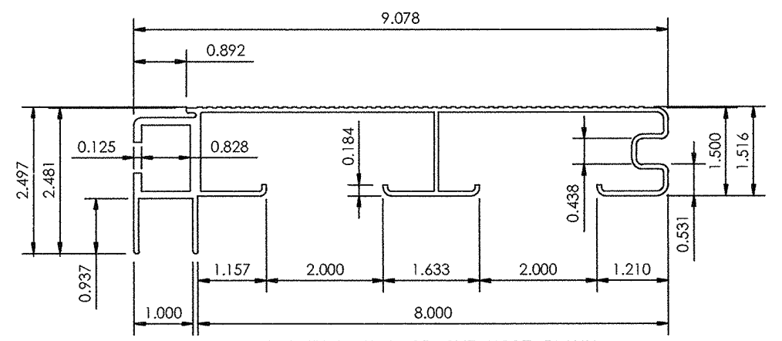
SHEET B-23 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)



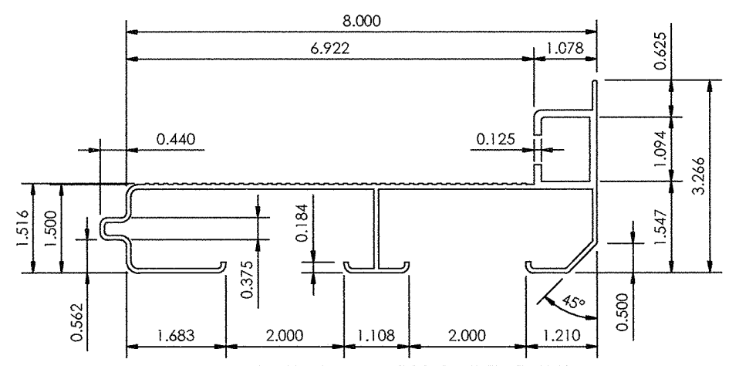
2X8 TONGUE & GROOVE PLANK
.078 WALL , 1.711#/FT.
1. Ix = .511 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .927 IN.

1/B24 2 X 8 ALUMINUM TONGUE & GROOVE PLANK DETAIL
NOT TO SCALE



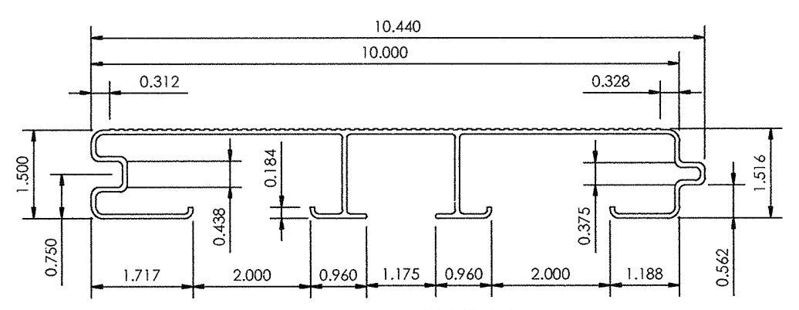
2X8 TONGUE & GROOVE NOSE PLANK
.078 WALL , 2.389#/FT.
1. Ix = .944 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .768 IN.

2/B24 2 X 8 TONGUE & GROOVE ALUMINUM NOSE PLANK DETAIL
NOT TO SCALE



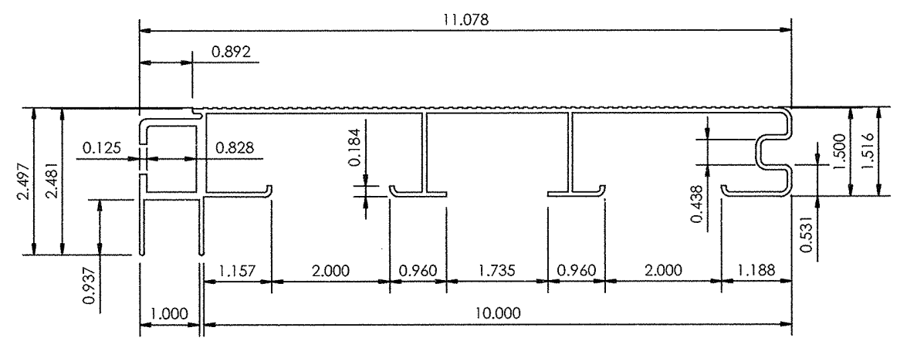
2X8 TONGUE & GROOVE HEEL PLANK
.078 WALL , 2.145#/FT.
1. Ix = 1.18 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = 1.28 IN.

3/B24 2 X 8 TONGUE & GROOVE ALUMINUM HEEL PLANK DETAIL
NOT TO SCALE



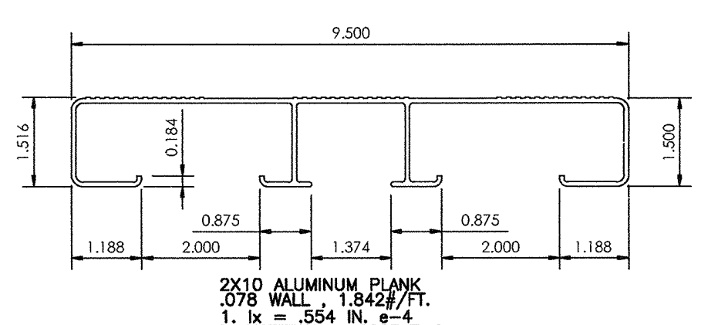
2X10 TONGUE & GROOVE PLANK
.078 WALL , 2.124#/FT.
1. Ix = .630 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .937 IN.

4/B24 2 X 10 ALUMINUM TONGUE & GROOVE PLANK DETAIL
NOT TO SCALE



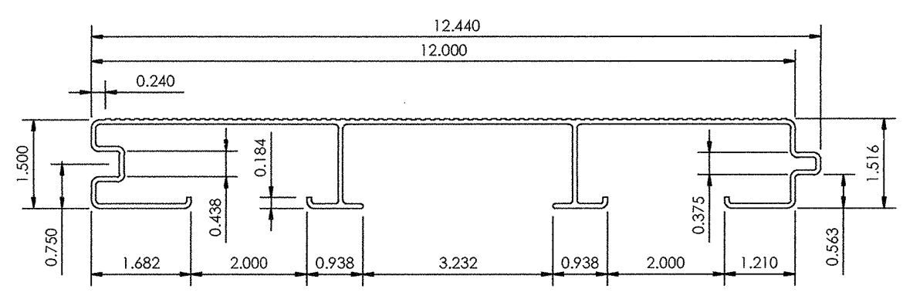
2X10 TONGUE & GROOVE NOSE PLANK
.078 WALL , 2.750#/FT.
1. Ix = 1.05 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .813 IN.

5/B24 2 X 10 TONGUE & GROOVE ALUMINUM NOSE PLANK DETAIL
NOT TO SCALE



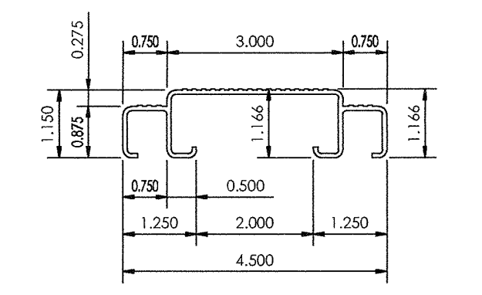
2X10 ALUMINUM PLANK
.078 WALL , 1.842#/FT.
1. Ix = .554 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .962 IN.

6/B24 2X10 ALUMINUM PLANK DETAIL
NOT TO SCALE



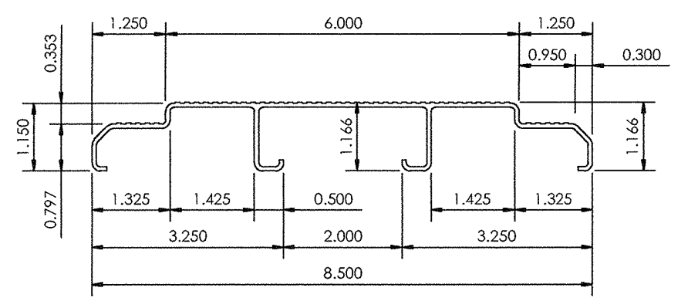
2X12 TONGUE & GROOVE PLANK
.078 WALL , 2.344#/FT.
1. Ix = .676 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .986 IN.

7/B24 2 X 12 ALUMINUM TONGUE & GROOVE PLANK DETAIL
NOT TO SCALE



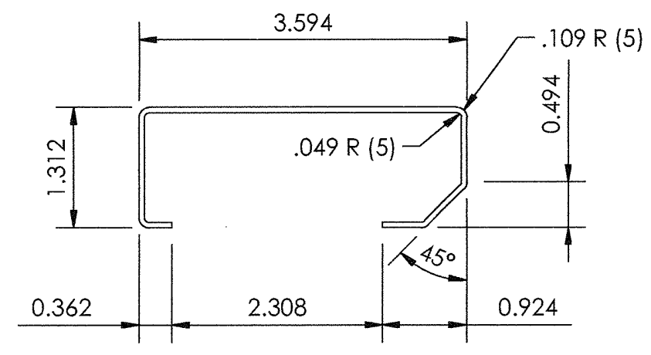
1X4 1/2 ALUMINUM FLAT RISER PLANK
.075 WALL , 0.865#/FT.
1. Ix = .116 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .697 IN.

8/B24 1 X 4 1/2 ALUMINUM FLAT RISER PLANK DETAIL
NOT TO SCALE



1X8 1/2 ALUMINUM FLAT RISER PLANK
.075 WALL , 1.283#/FT.
1. Ix = .151 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = .799 IN.

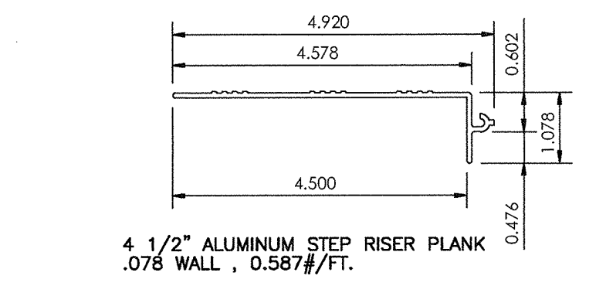
9/B24 1 X 8 1/2 ALUMINUM FLAT RISER PLANK DETAIL
NOT TO SCALE



STANDARD ALUMINUM PLANK SLEEVE
.060 WALL , 0.497#/FT.

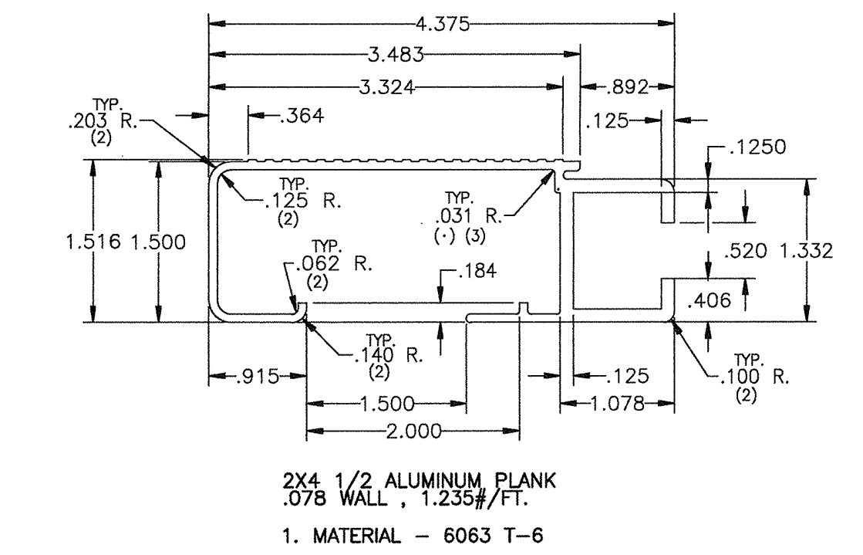
MATERIAL – 6063 T-6
MIN. MAT. PROP. – 25000 PSI
E = 10,000,000 PSI

10/B24 ALUMINUM JOINT SLEEVE DETAIL
NOT TO SCALE



4 1/2" ALUMINUM STEP RISER PLANK
.078 WALL , 0.587#/FT.

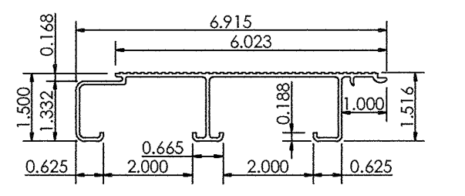
11/B24 4 1/2" ALUMINUM STEP RISER PLANK DETAIL
NOT TO SCALE



2X4 1/2 ALUMINUM PLANK
.078 WALL , 1.235#/FT.

1. MATERIAL – 6063 T-6

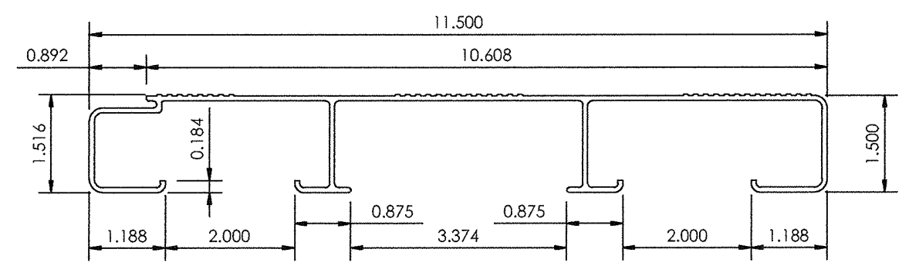
12/B24 2X4 3/8 ALUMINUM PLANK DETAIL



2X7 ALUMINUM INTERLOCKING NOSE PLANK
.078 WALL , 1.330#/FT.

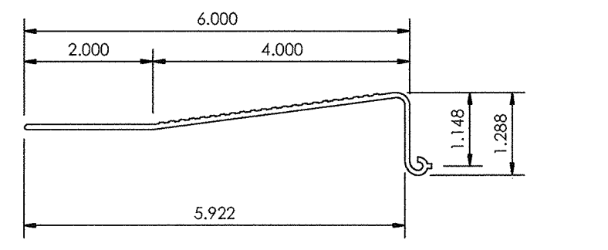
1. MATERIAL - 6063 T-6
2. MIN. MAT. PROP. - 25000 PSI
3. E = 10,000,000 PSI

13/B24 2 X 7 ALUMINUM (NOSE) INTERLOCKING PLANK DETAIL
NOT TO SCALE



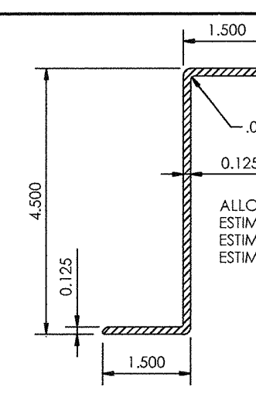
2X12 ALUMINUM STEPNOSE PLANK
.078 WALL , 2.040#/FT.
1. Ix = .583 IN. e-4
2. MATERIAL – 6063 T-6
3. MIN. MAT. PROP. – 25000 PSI
4. E = 10,000,000 PSI
5. C = 1.00 IN.

14/B24 2X12 ALUMINUM STEPNOSE PLANK DETAIL
NOT TO SCALE



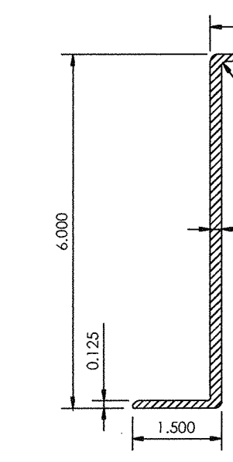
6" ALUMINUM STEP RISER PLANK
.078 WALL , 0.748#/FT.

15/B24 6" ALUMINUM STEP RISER PLANK DETAIL
NOT TO SCALE



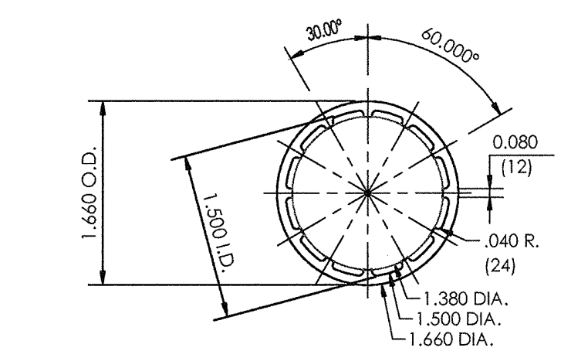
ALLOY = 6061-T6
ESTIMATED AREA = 0.895 SQ. IN.
ESTIMATED WEIGHT PER FT. = 1.074 LBS.
ESTIMATED PERIMETER = 14.45 IN.

16/B24 4 1/2" ALUMINUM "Z" BRACKET DETAIL
NOT TO SCALE



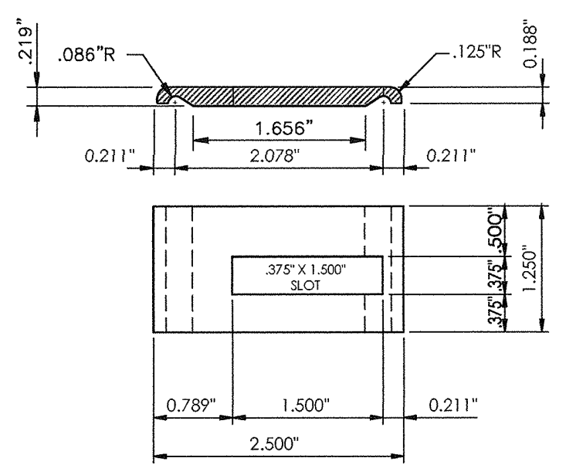
ALLOY = 6061-T6
ESTIMATED AREA = 1.445 SQ. IN.
ESTIMATED WEIGHT PER FT. = 1.734 LBS.
ESTIMATED PERIMETER = 17.34 IN.

17/B24 6" ALUMINUM "Z" BRACKET DETAIL
NOT TO SCALE



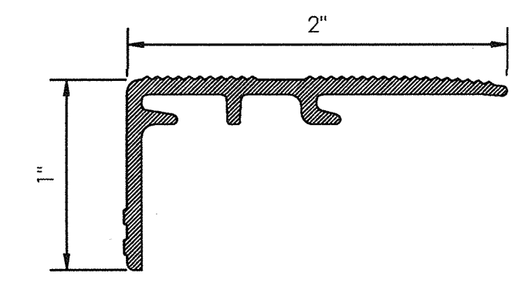
AREA .465 , .558#/FT.
MATERIAL – 6063 T-6

18/B24 1 5/8" O.D. ALUMINUM RAIL DETAIL
NOT TO SCALE



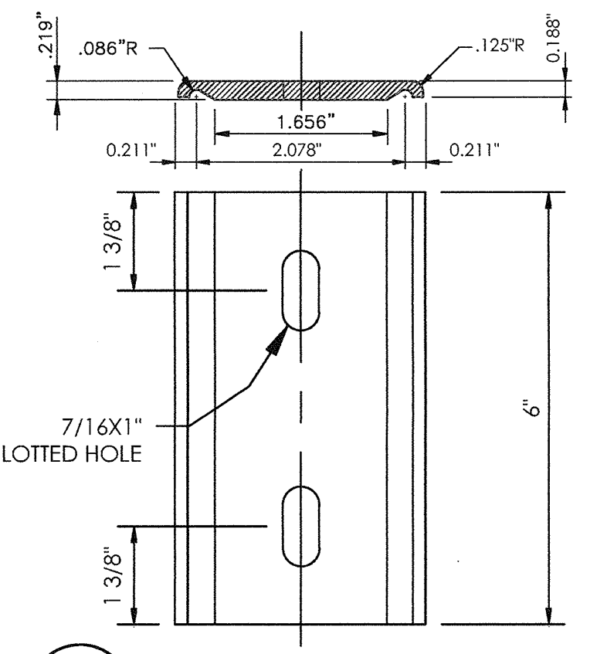
ALUMINUM ALLOY = 6063-T6
EST. AREA = .488 SQ. IN.
EST. WT/FT. = .586 LB.
EST. PERIMETER = 5.427 IN.

19/B24 HOLD DOWN CLIP DETAIL
NOT TO SCALE

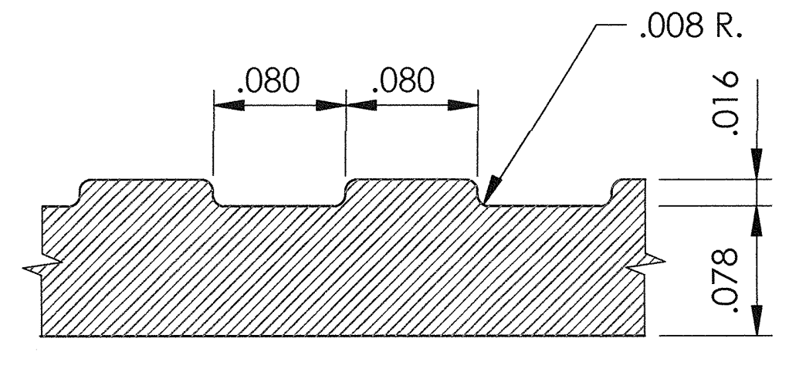


ALLOY = 6063-T6

20/B24 ALUMINUM AISLE NOSING
NOT TO SCALE

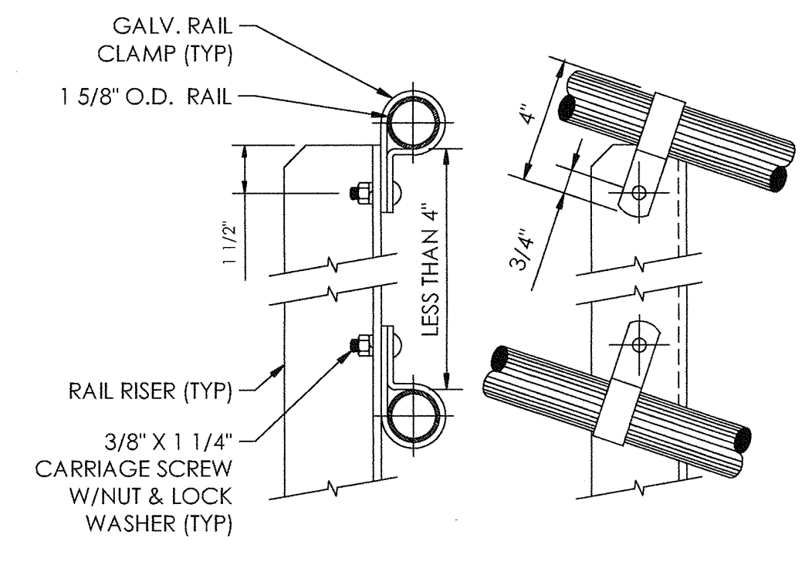


21/B24 TOEBOARD CLAMP
NOT TO SCALE

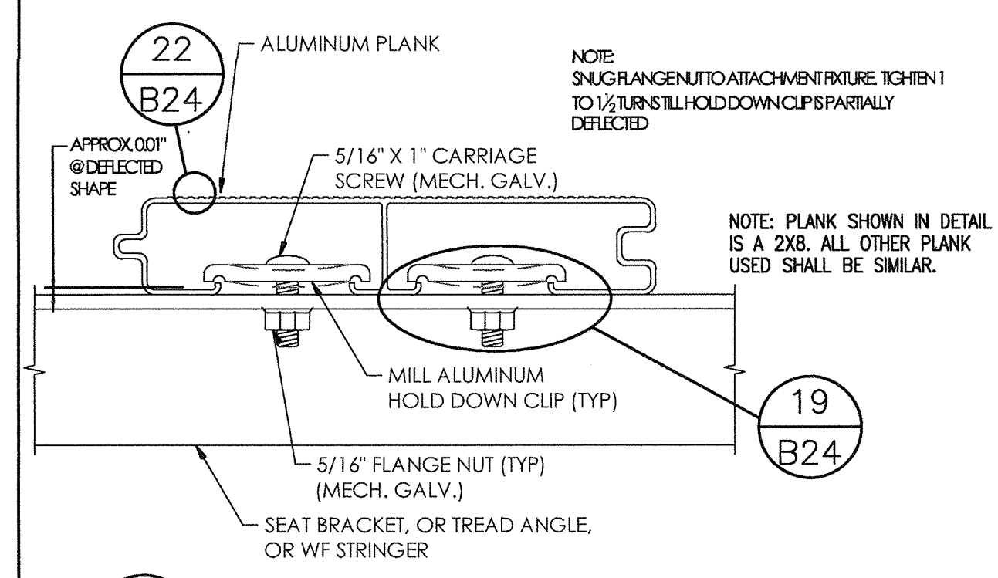


NOTE: TYPICAL FOR ALL PLANKS.

22/B24 FLUTED SURFACE DETAIL
NOT TO SCALE



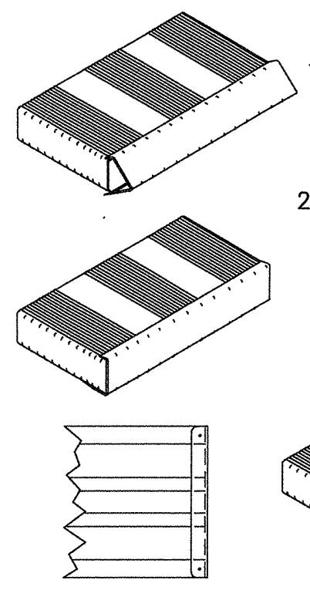
23/B24 RAIL RISER ATTACHMENT DETAIL
NOT TO SCALE


22
B24
ALUMINUM PLANK
APPROX. 0.01" @ DEFLECTED SHAPE
5/16" X 1" CARRIAGE SCREW (MECH. GALV.)
MILL ALUMINUM HOLD DOWN CLIP (TYP)
19
B24
5/16" FLANGE NUT (TYP) (MECH. GALV.)
SEAT BRACKET, OR TREAD ANGLE, OR WF STRINGER

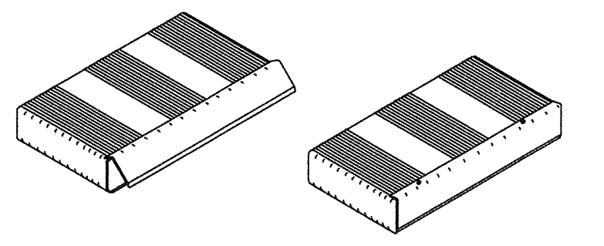
NOTE:
SNUG FLANGE NUT TO ATTACHMENT FIXTURE. TIGHTEN 1 TO 1½ TURNS TILL HOLD DOWN CLIP IS PARTIALLY DEFLECTED

NOTE: PLANK SHOWN IN DETAIL IS A 2X8. ALL OTHER PLANK USED SHALL BE SIMILAR.

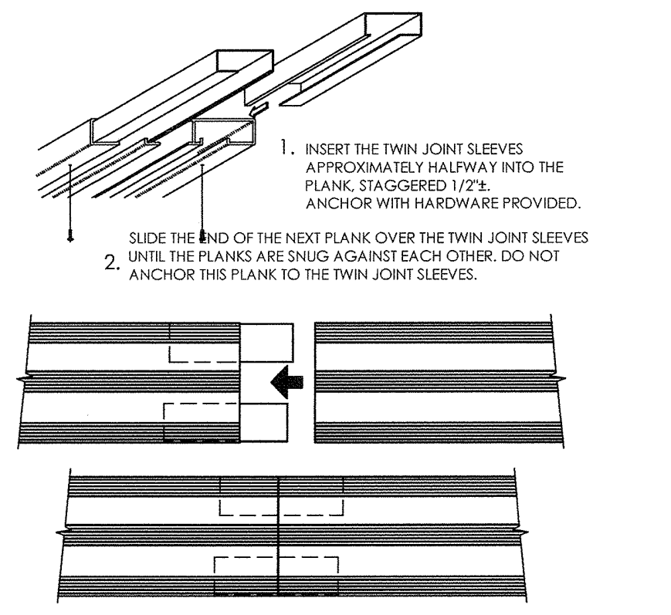
24/B24 PLANK INSTALLATION DETAIL
NOT TO SCALE



1. LOCATE THE END CAP AS SHOWN. (WITH WIDEST FLANGE ON BOTTOM FOR CHANNEL E.C., AND NARROW FLANGE ON TOP FOR ANGLE E.C. .)
2. MECHANICALLY FASTEN THROUGH BOTTOM FLANGE OF CHANNEL E.C., AND TOP FLANGE OF ANGLE E.C. (CHANNEL E.C. SHOULD BE TAPPED INTO PLACE WITH A RUBBER MALLET AS NECESSARY .)

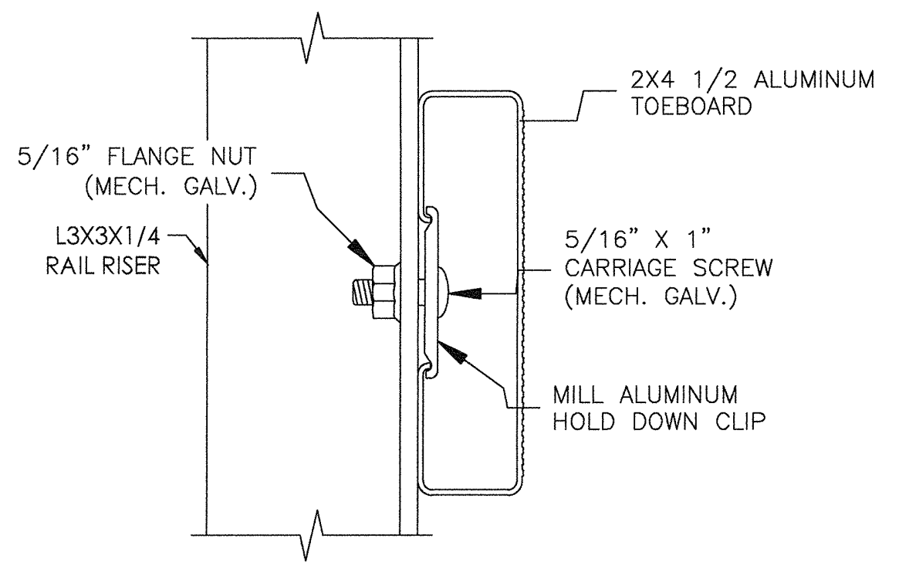


25/B24 END CAP INSTALLATION DETAIL
NOT TO SCALE



1. INSERT THE TWIN JOINT SLEEVES APPROXIMATELY HALFWAY INTO THE PLANK, STAGGERED 1/2"±. ANCHOR WITH HARDWARE PROVIDED.
2. SLIDE THE END OF THE NEXT PLANK OVER THE TWIN JOINT SLEEVES UNTIL THE PLANKS ARE SNUG AGAINST EACH OTHER. DO NOT ANCHOR THIS PLANK TO THE TWIN JOINT SLEEVES.

26/B24 JOINT SLEEVE INSTALLATION DETAIL
NOT TO SCALE


2X4 1/2 ALUMINUM TOEBOARD
5/16" FLANGE NUT (MECH. GALV.)
L3X3X1/4 RAIL RISER
5/16" X 1" CARRIAGE SCREW (MECH. GALV.)
MILL ALUMINUM HOLD DOWN CLIP

27/B24 TOEBOARD ATTACH. DETAIL
NOT TO SCALE

A# 03-117117
AC N.N. FLS ______ SS ______
DATE FEB 0 3 2017
FILE # 19-H10

DETAIL NUMBER 1
SHEET SHOWN ON 10

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CIVIL ENGINEERS - STRUCTURAL ENGINEERS
7415 N. PALM AVENUE - SUITE 100 • FRESNO, CALIFORNIA
PH: (559)449-8444 • FAX: (559)449-8404

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GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSON
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

TYPE: ALUMINUM DETAIL SHEET

TITLE:
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

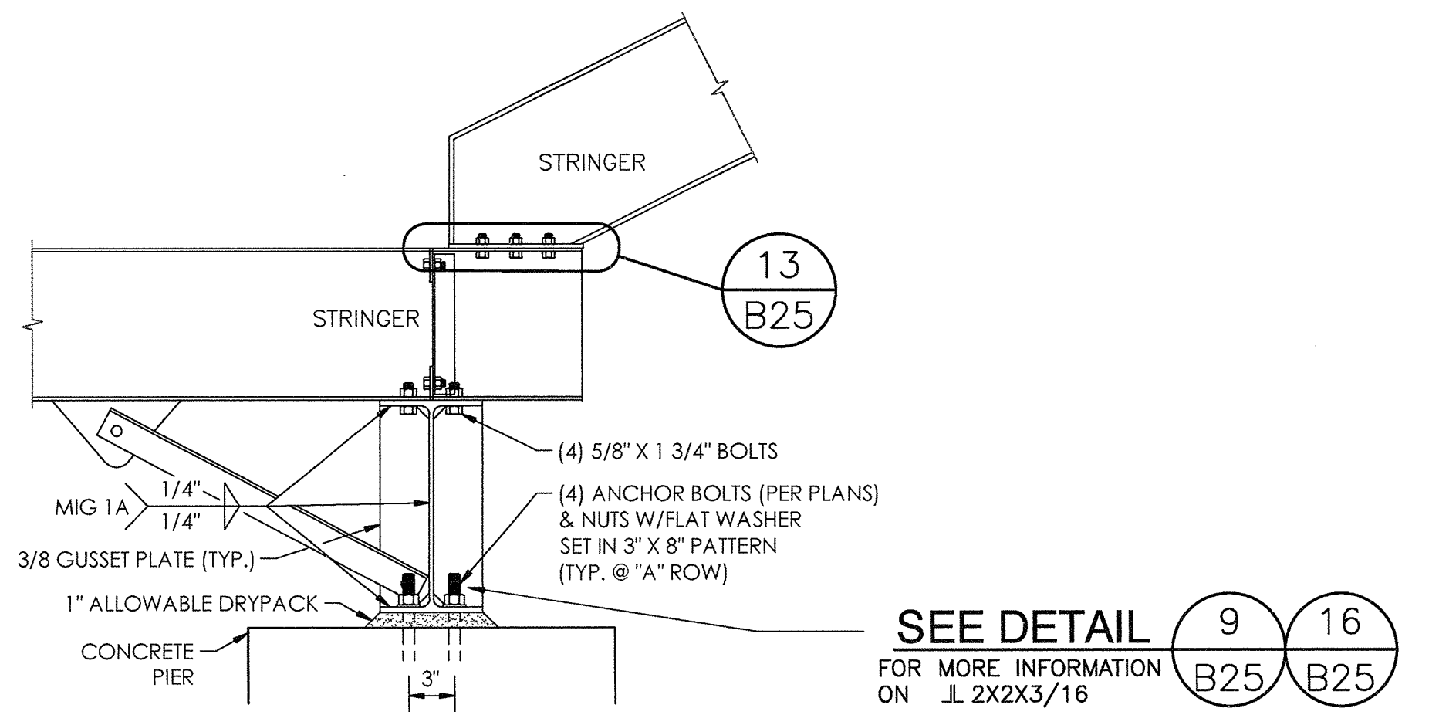
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

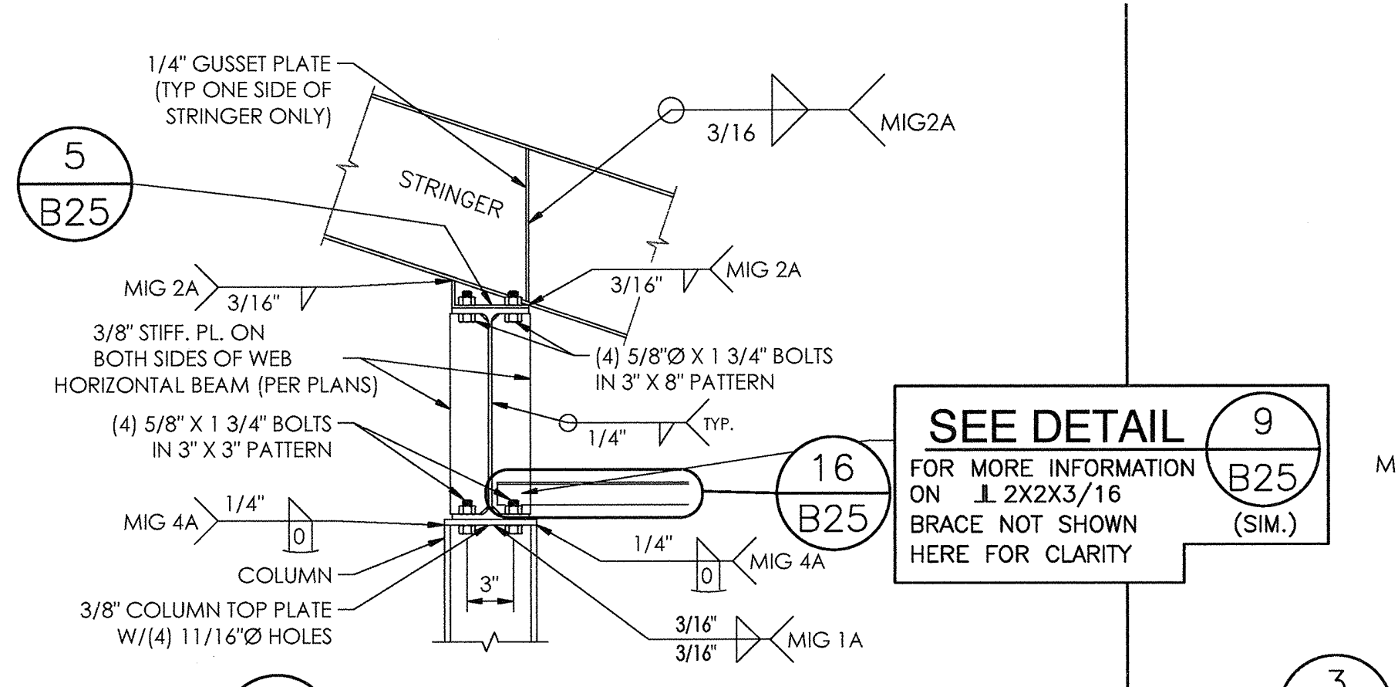
JOB NUMBER 14202

SHEET B-24 OF B-30

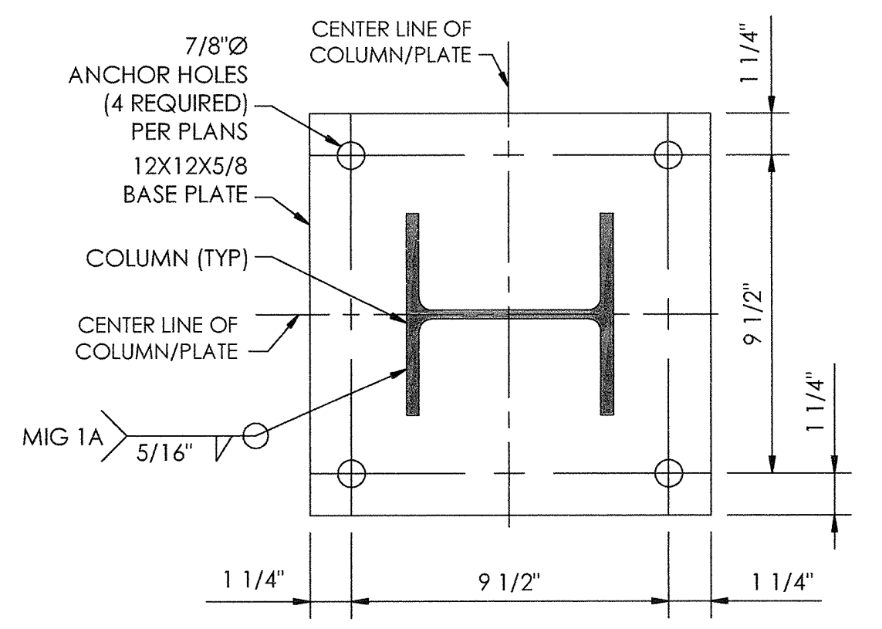
22" X 34" (11x17 = 1/2 indicated scale)


STRINGER
13
B25
STRINGER
(4) 5/8" X 1 3/4" BOLTS
(4) ANCHOR BOLTS (PER PLANS) & NUTS W/FLAT WASHER SET IN 3" X 8" PATTERN (TYP. @ "A" ROW)
MIG 1A
1/4"
3/8 GUSSET PLATE (TYP.)
1" ALLOWABLE DRYPACK
CONCRETE PIER
SEE DETAIL 9/B25 16/B25
FOR MORE INFORMATION ON ⊥ 2X2X3/16 BRACE NOT SHOWN HERE FOR CLARITY

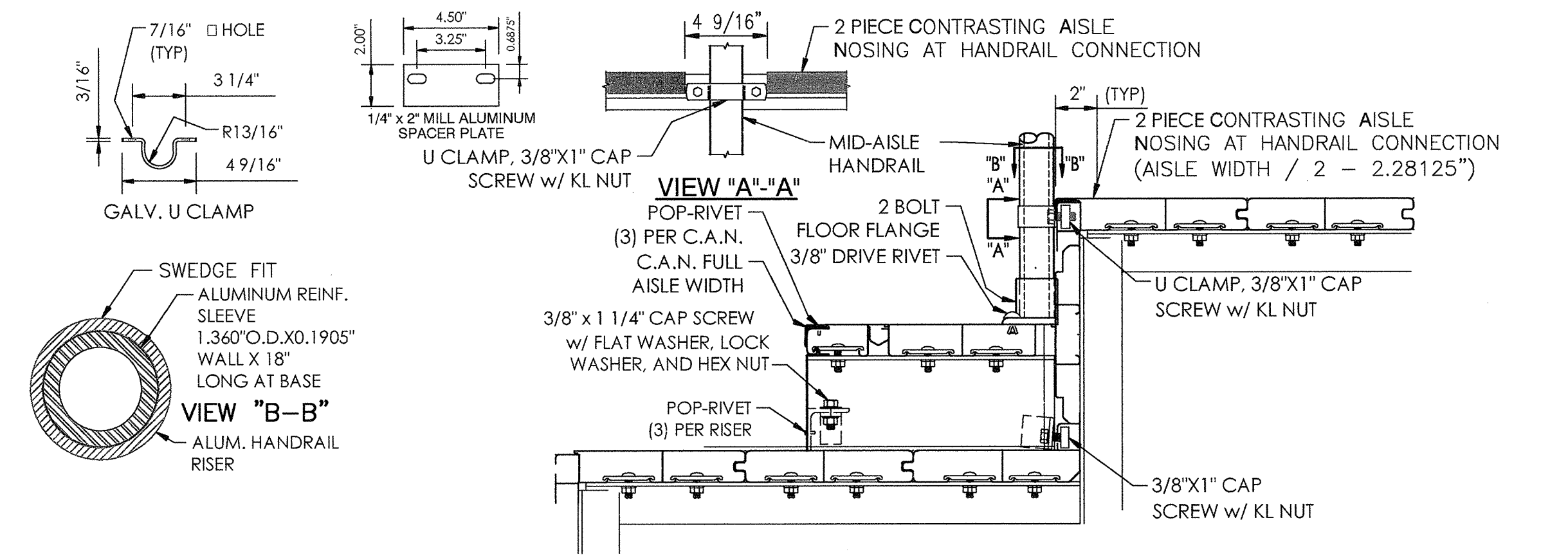
1 ROW "B" BEAM DETAIL
B25 NOT TO SCALE


1/4" GUSSET PLATE (TYP ONE SIDE OF STRINGER ONLY)
5
B25
STRINGER
3/16
MIG2A
MIG 2A
3/16"
3/8" STIFF. PL. ON BOTH SIDES OF WEB HORIZONTAL BEAM (PER PLANS)
(4) 5/8" X 1 3/4" BOLTS IN 3" X 8" PATTERN
(4) 5/8"Ø X 1 3/4" BOLTS IN 3" X 8" PATTERN
1/4"
MIG 4A
COLUMN
3/8" COLUMN TOP PLATE W/(4) 11/16"Ø HOLES
16
B25
MIG 1A
SEE DETAIL 9/B25 (SIM.)
FOR MORE INFORMATION ON ⊥ 2X2X3/16 BRACE NOT SHOWN HERE FOR CLARITY

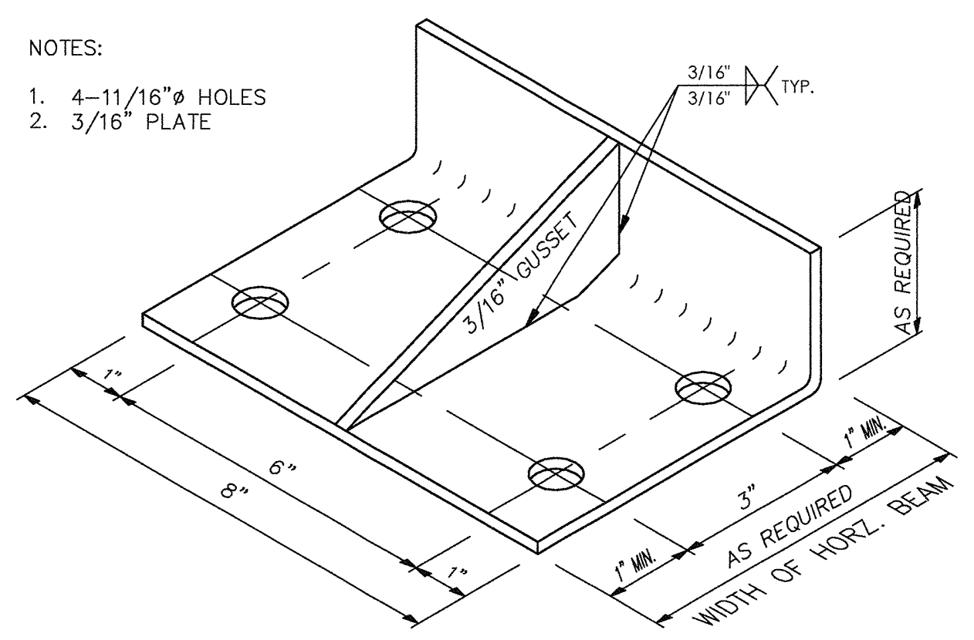
2 ROW "C", "D", & "E" BEAM DETAIL
B25 NOT TO SCALE


7/8"Ø ANCHOR HOLES (4 REQUIRED) PER PLANS
CENTER LINE OF COLUMN/PLATE
12X12X5/8 BASE PLATE
COLUMN (TYP)
CENTER LINE OF COLUMN/PLATE
MIG 1A
5/16"
1 1/4"
9 1/2"
1 1/4"

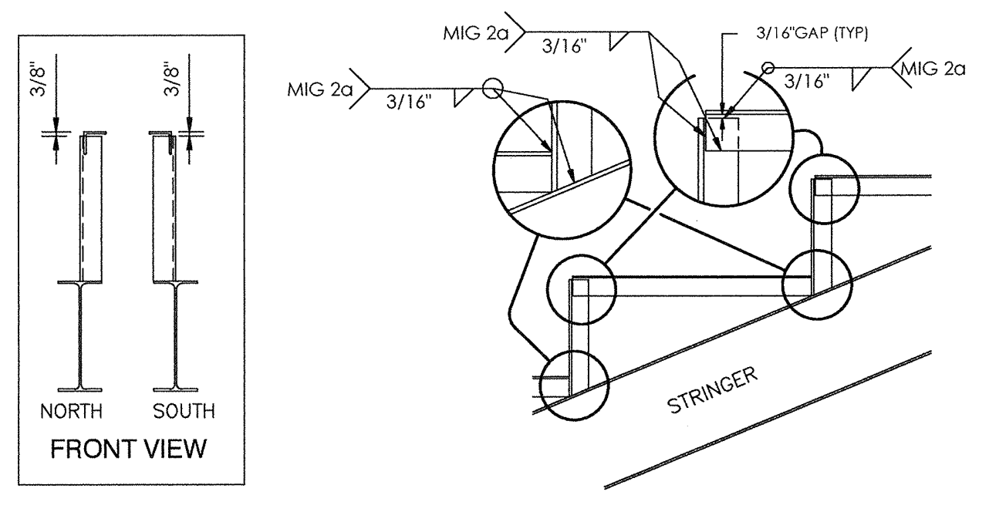
3 BASE PLATE ATTACHMENT DETAIL
B25 NOT TO SCALE


7/16" □ HOLE (TYP)
3 1/4
R13/16"
4 9/16"
GALV. U CLAMP
SWEDGE FIT ALUMINUM REINF. SLEEVE 1.360"O.D.X0.1905" WALL X 18" LONG AT BASE
VIEW "B-B"
ALUM. HANDRAIL RISER
1/4" x 2" MILL ALUMINUM SPACER PLATE
U CLAMP, 3/8"X1" CAP SCREW w/ KL NUT
VIEW "A"-"A"
2 PIECE CONTRASTING AISLE NOSING AT HANDRAIL CONNECTION
2 PIECE CONTRASTING AISLE NOSING AT HANDRAIL CONNECTION (AISLE WIDTH / 2 - 2.28125")
MID-AISLE HANDRAIL
POP-RIVET (3) PER C.A.N. C.A.N. FULL AISLE WIDTH
2 BOLT FLOOR FLANGE
3/8" DRIVE RIVET
3/8" X 1 1/4" CAP SCREW w/ FLAT WASHER, LOCK WASHER, AND HEX NUT
POP-RIVET (3) PER RISER
U CLAMP, 3/8"X1" CAP SCREW w/ KL NUT
3/8"X1" CAP SCREW w/ KL NUT

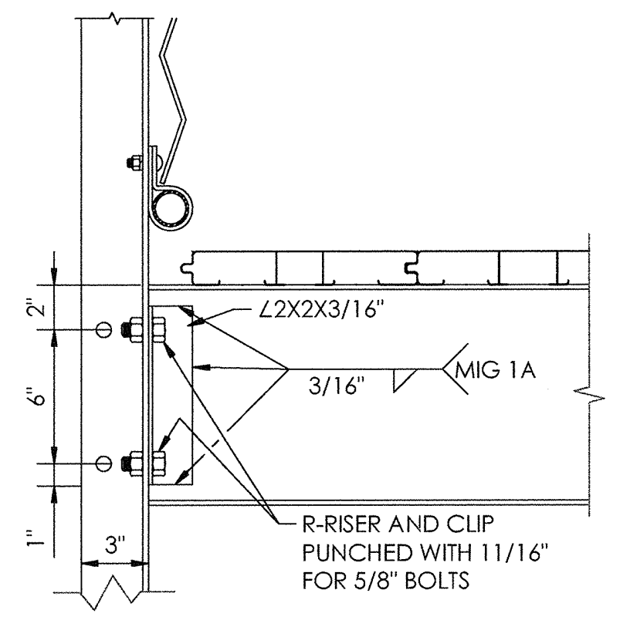
4 TONGUE & GROOVE 2001 HALF STEP & HANDRAIL ATTACHMENT DETAIL
B25 NOT TO SCALE



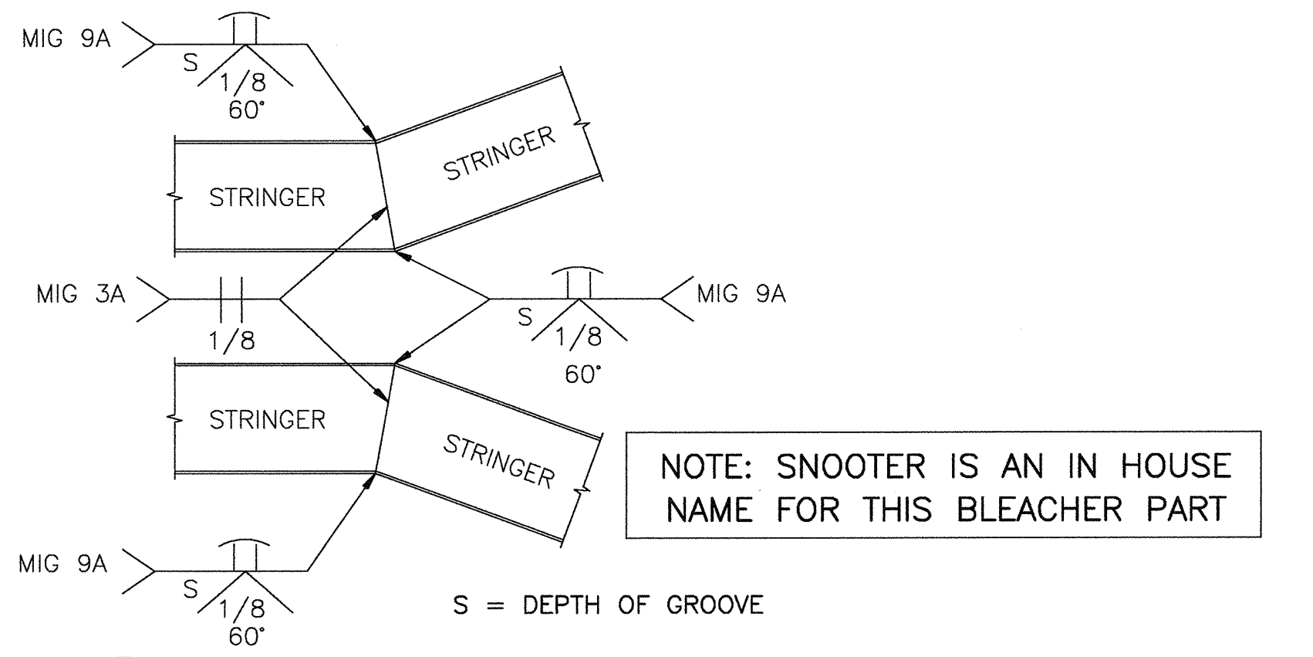
5 STRINGER CLIP DETAIL
B25 NOT TO SCALE



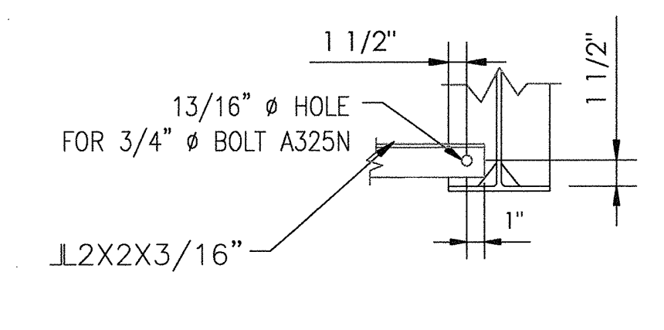
6 ANGLE FAB DETAIL
B25 NOT TO SCALE



7 FRONT RAIL RISER ATTACHMENT DETAIL
B25 NOT TO SCALE



8 STRINGER SNOOTER JOINT CONNECTION
B25 NOT TO SCALE



9 CONNECTION DETAIL
B25 NOT TO SCALE
2X2X3/16 TO 3/8" PLATE

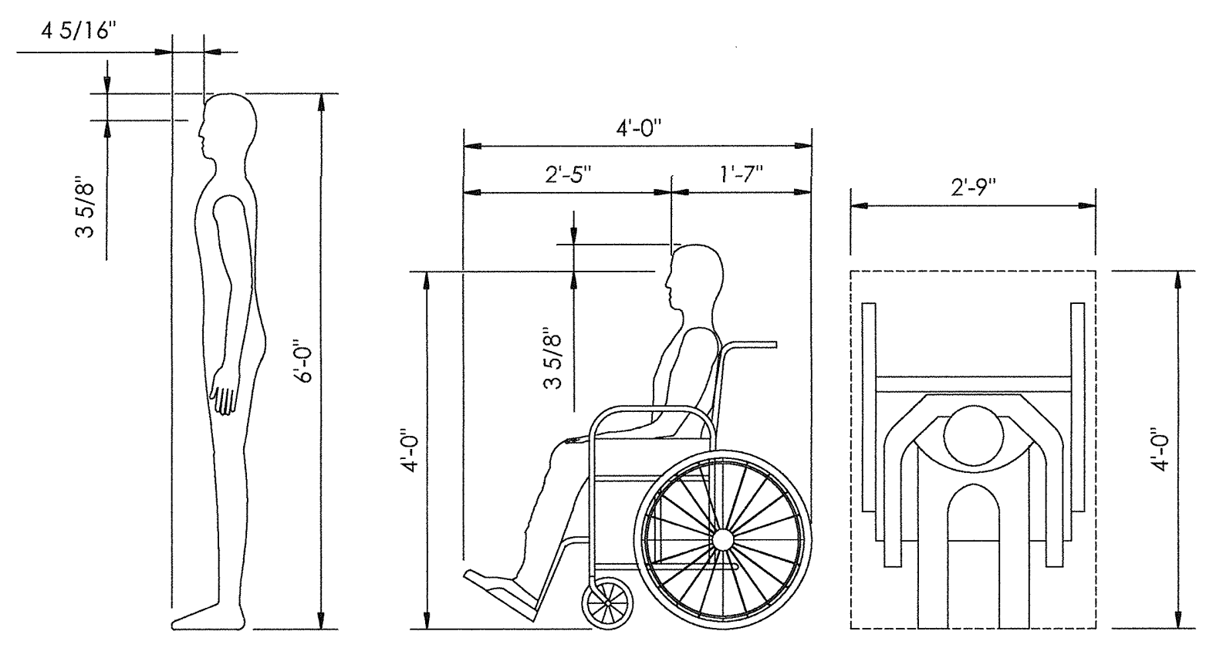
A# 03-117117

AC N.N. FLS

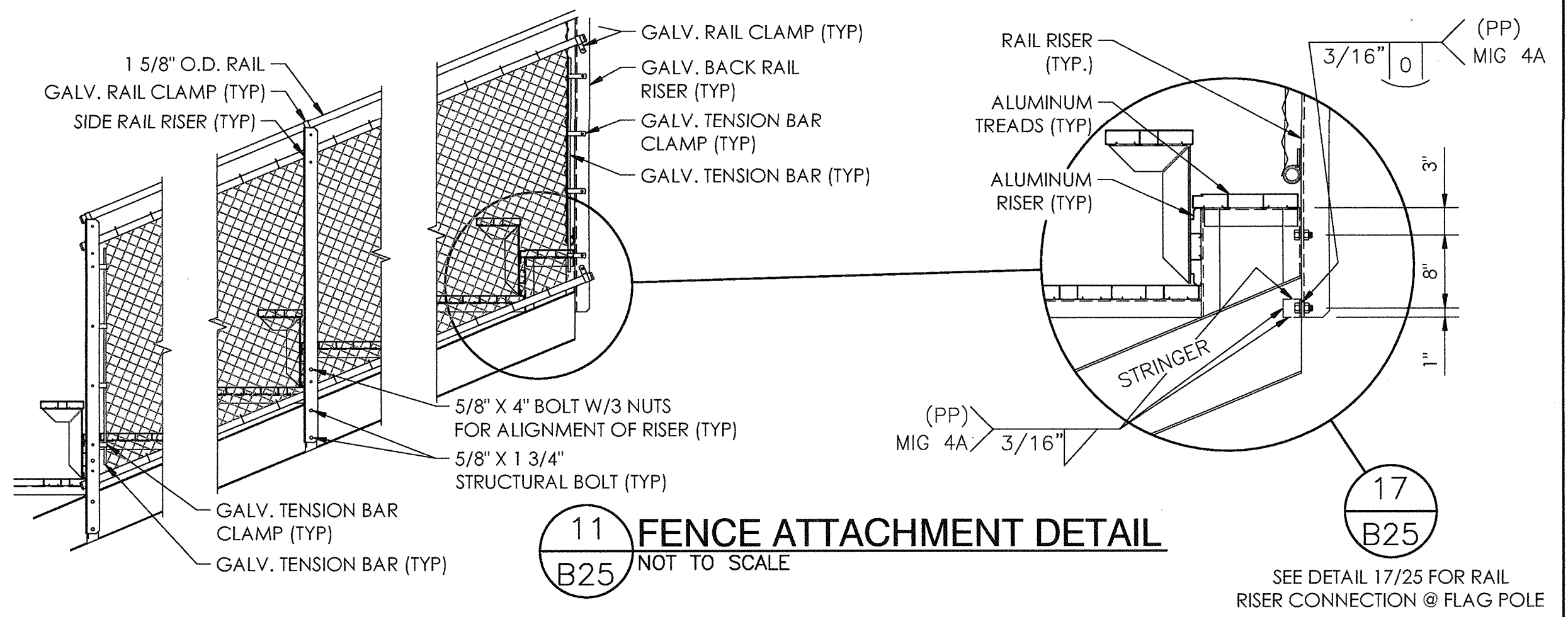
SS

DATE FEB 0 3 2017

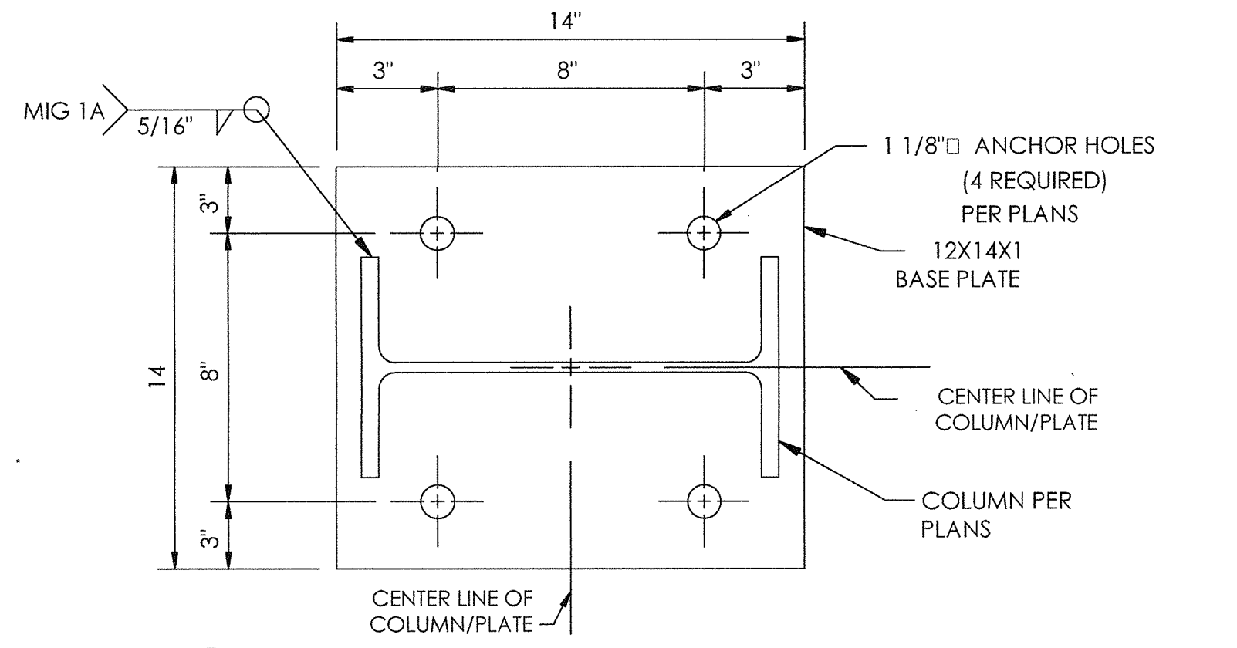
FILE # 19-H10



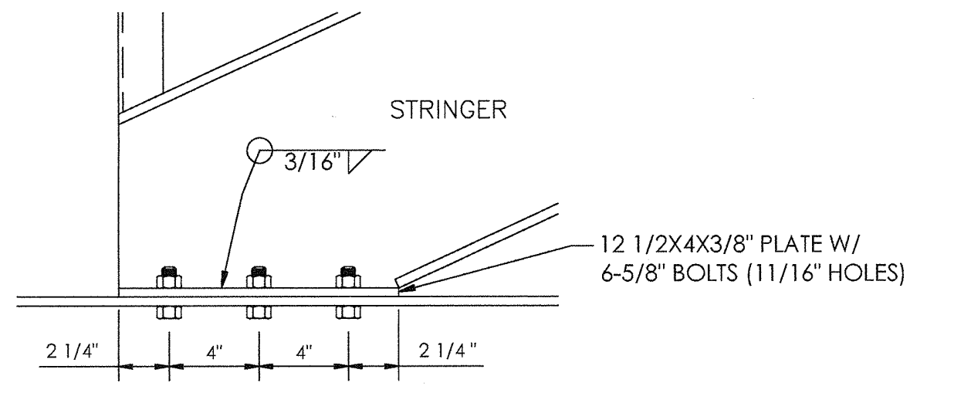
10 SIGHT LINE PARAMETERS
B25 NOT TO SCALE



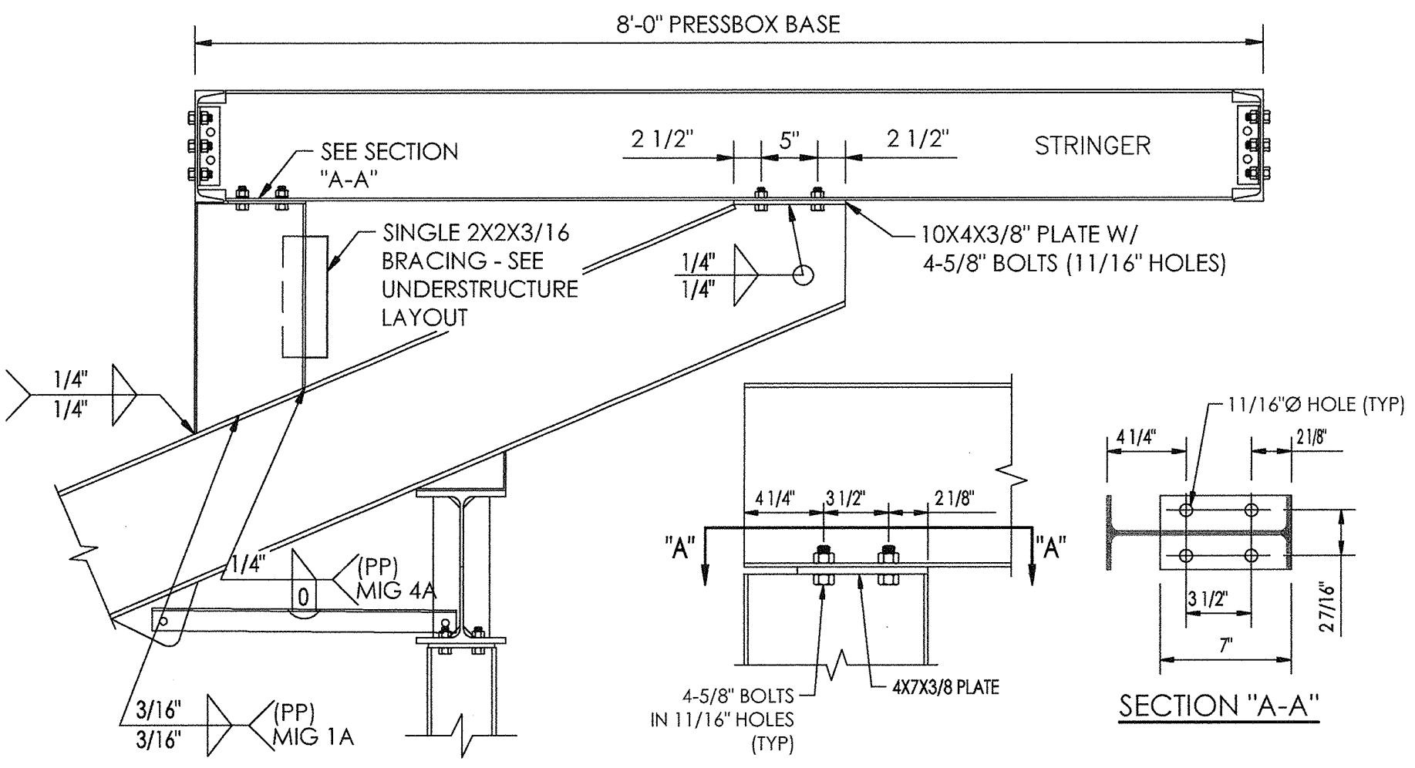
11 FENCE ATTACHMENT DETAIL
B25 NOT TO SCALE


14"
3"
8"
3"
MIG 1A
5/16"
1 1/8"□ ANCHOR HOLES (4 REQUIRED) PER PLANS
12X14X1 BASE PLATE
CENTER LINE OF COLUMN/PLATE
COLUMN PER PLANS
CENTER LINE OF COLUMN/PLATE

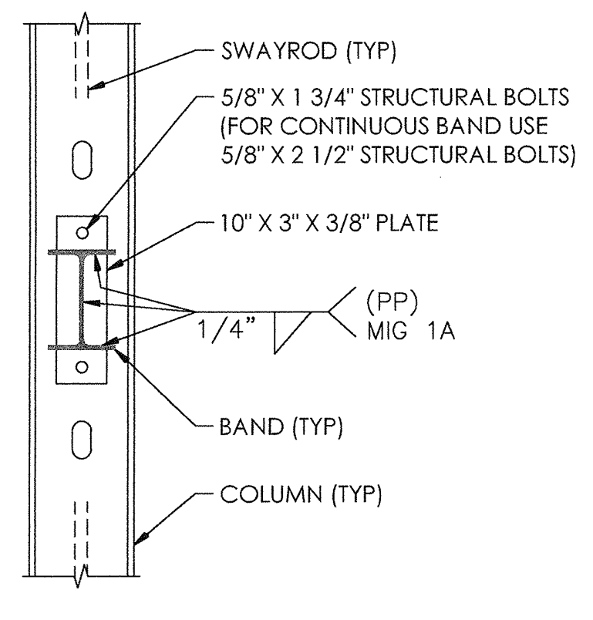
12 14X14" BASE PLATE ATTACHMENT DETAIL
B25 NOT TO SCALE



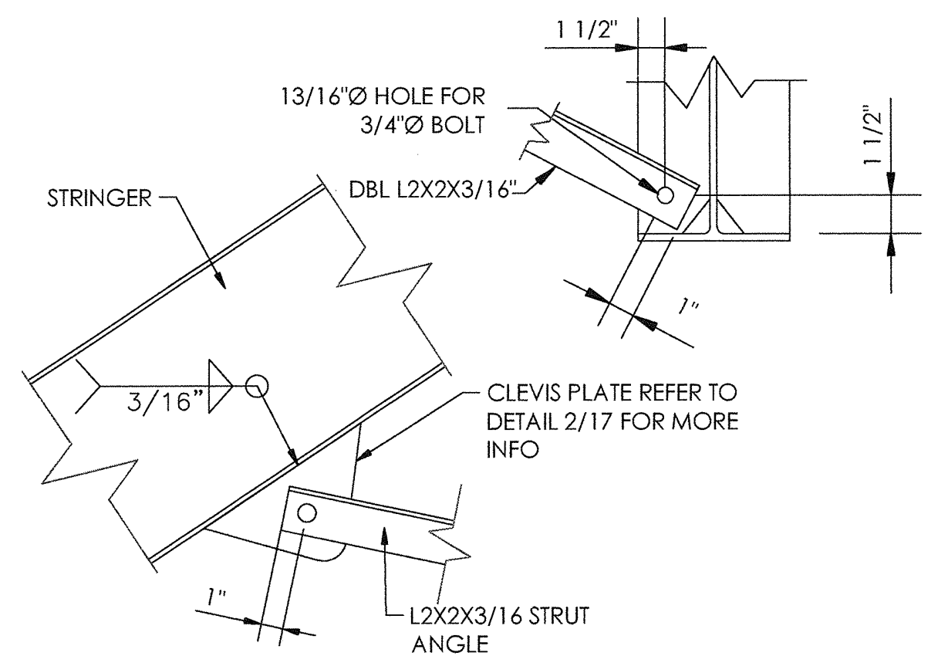
13 CONNECTION DETAIL
B25 NOT TO SCALE



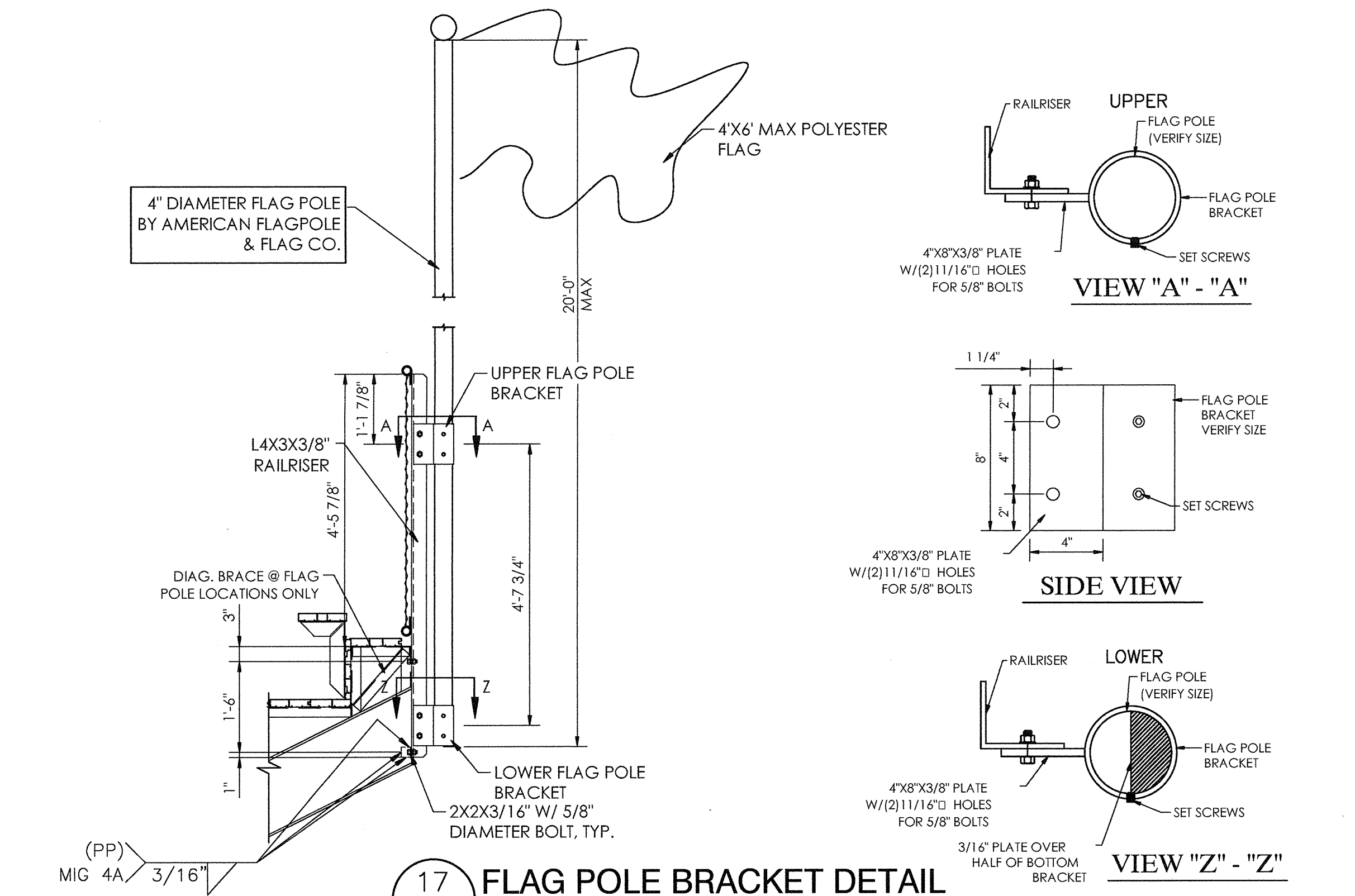
14 PRESSBOX BASE DETAIL
B25 NOT TO SCALE


SWAYROD (TYP)
5/8" X 1 3/4" STRUCTURAL BOLTS (FOR CONTINUOUS BAND USE 5/8" X 2 1/2" STRUCTURAL BOLTS)
10" X 3" X 3/8" PLATE
1/4"
(PP) MIG 1A
BAND (TYP)
COLUMN (TYP)

15 BAND ATTACHMENT DETAIL
B25 NOT TO SCALE


1 1/2"
13/16"Ø HOLE FOR 3/4"Ø BOLT
1 1/2"
STRINGER
DBL L2X2X3/16
3/16"
CLEVIS PLATE REFER TO DETAIL 2/17 FOR MORE INFO
L2X2X3/16 STRUT ANGLE

16 CONNECTION DETAIL
B25 NOT TO SCALE


4'X6' MAX POLYESTER FLAG
4" DIAMETER FLAG POLE BY AMERICAN FLAGPOLE & FLAG CO.
20'-0" MAX
UPPER FLAG POLE BRACKET
L4X3X3/8" RAILRISER
DIAG. BRACE @ FLAG POLE LOCATIONS ONLY
LOWER FLAG POLE BRACKET
2X2X3/16" W/ 5/8" DIAMETER BOLT, TYP.
(PP) MIG 4A
3/16"
RAILRISER
UPPER
FLAG POLE (VERIFY SIZE)
FLAG POLE BRACKET
4"X8"X3/8" PLATE W/(2)11/16"O HOLES FOR 5/8" BOLTS
SET SCREWS
VIEW "A" - "A"
FLAG POLE BRACKET VERIFY SIZE
SET SCREWS
4"X8"X3/8" PLATE W/(2)11/16"O HOLES FOR 5/8" BOLTS
SIDE VIEW
RAILRISER
LOWER
FLAG POLE (VERIFY SIZE)
FLAG POLE BRACKET
4"X8"X3/8" PLATE W/(2)11/16"O HOLES FOR 5/8" BOLTS
SET SCREWS
3/16" PLATE OVER HALF OF BOTTOM BRACKET
VIEW "Z" - "Z"

17 FLAG POLE BRACKET DETAIL
B25 NOT TO SCALE

1 DETAIL NUMBER
10 SHEET SHOWN ON

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Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

TYPE
DETAIL SHEET

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

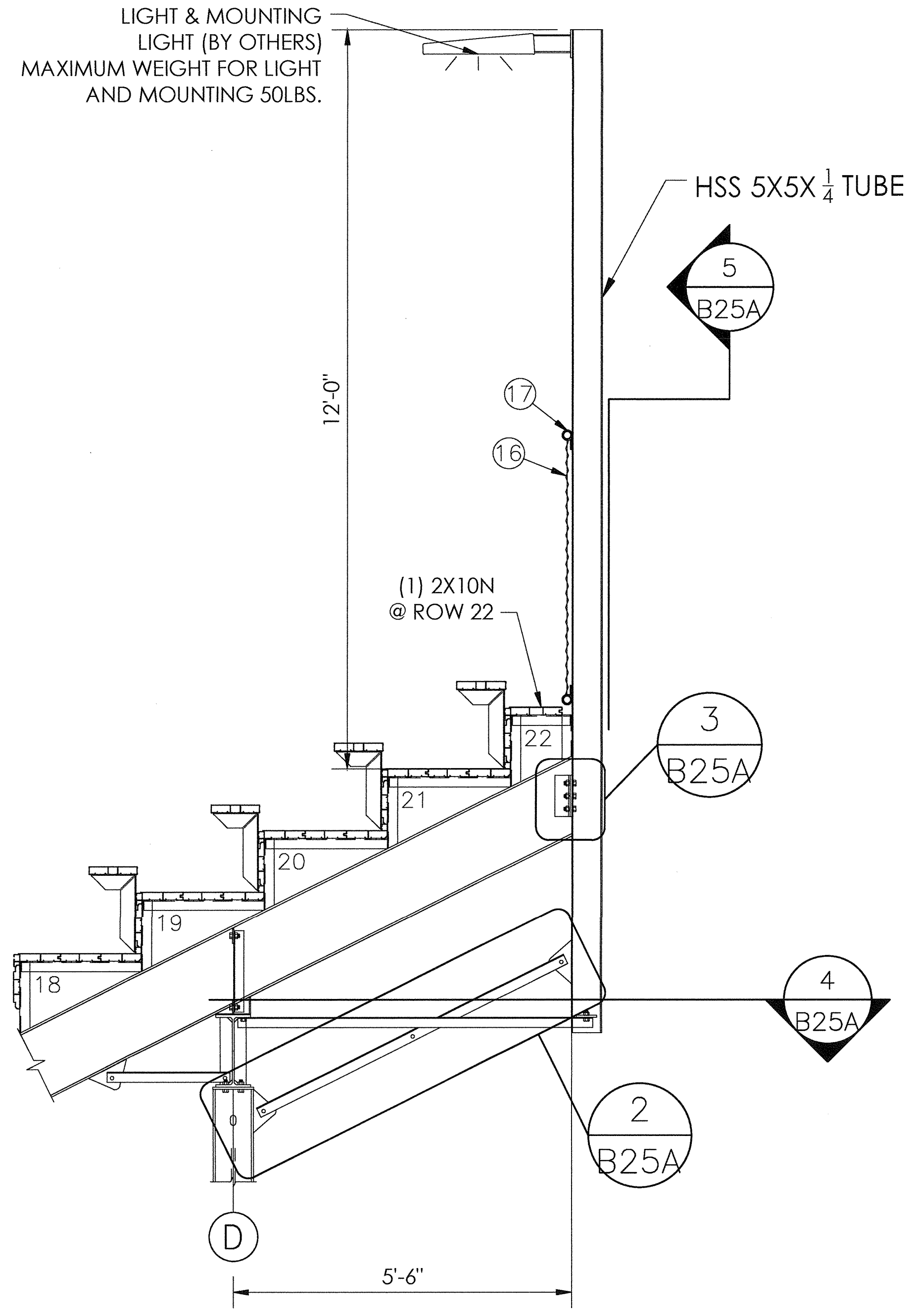
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	ADDED DETAIL 17/25
1	MG	12/15/15	NO CHANGE TO THIS PAGE

DATE	DRAWN	CHECKED
3/23/15	AA	DMc

JOB NUMBER
14202

SHEET B-25 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)

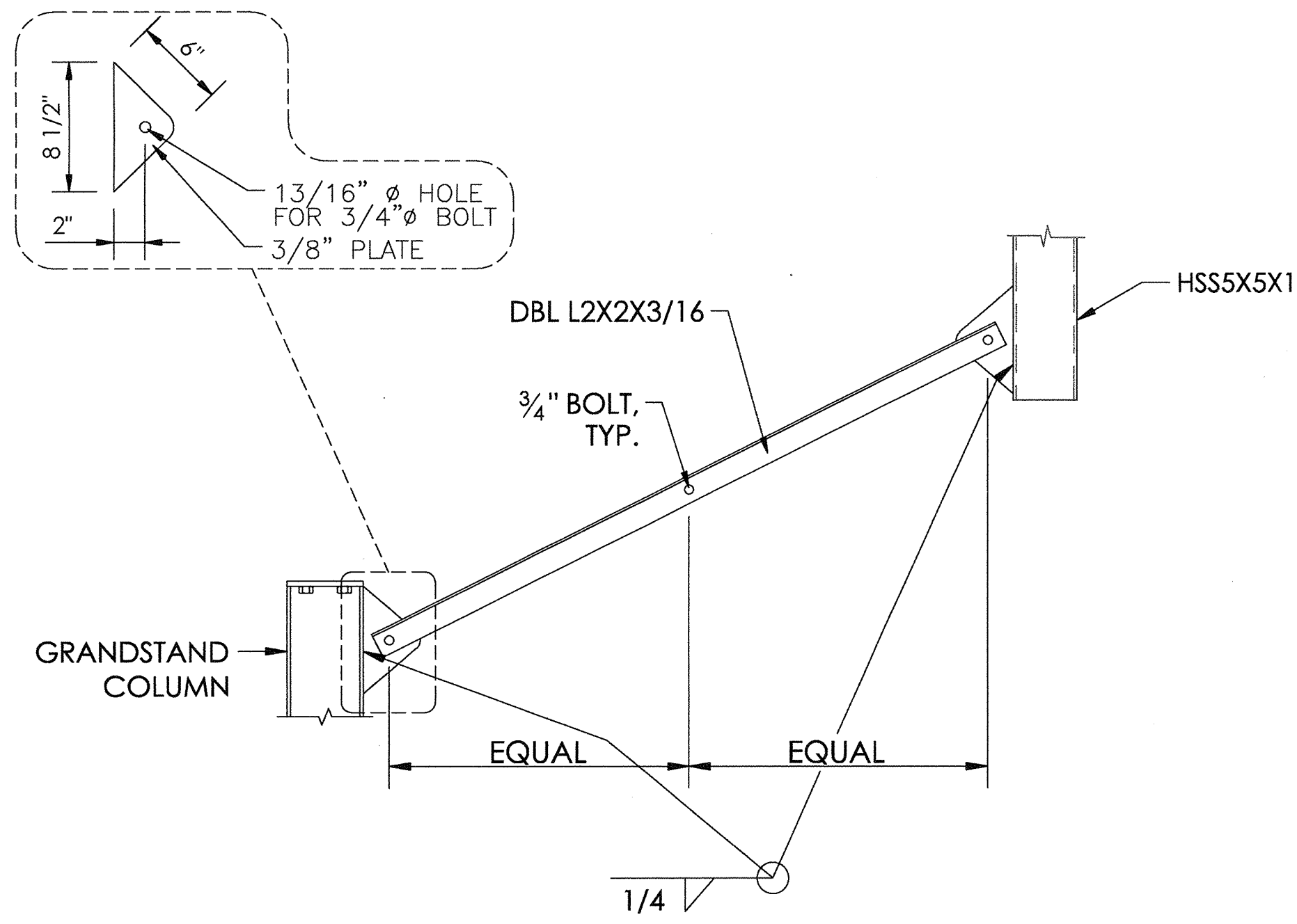


LIGHT & MOUNTING LIGHT (BY OTHERS) MAXIMUM WEIGHT FOR LIGHT AND MOUNTING 50LBS.
HSS 5X5X$\frac{1}{4}$ TUBE
5
B25A
12'-0"
17
16
(1) 2X10N @ ROW 22
22
21
20
19
18
3
B25A
4
B25A
2
B25A
D
5'-6"

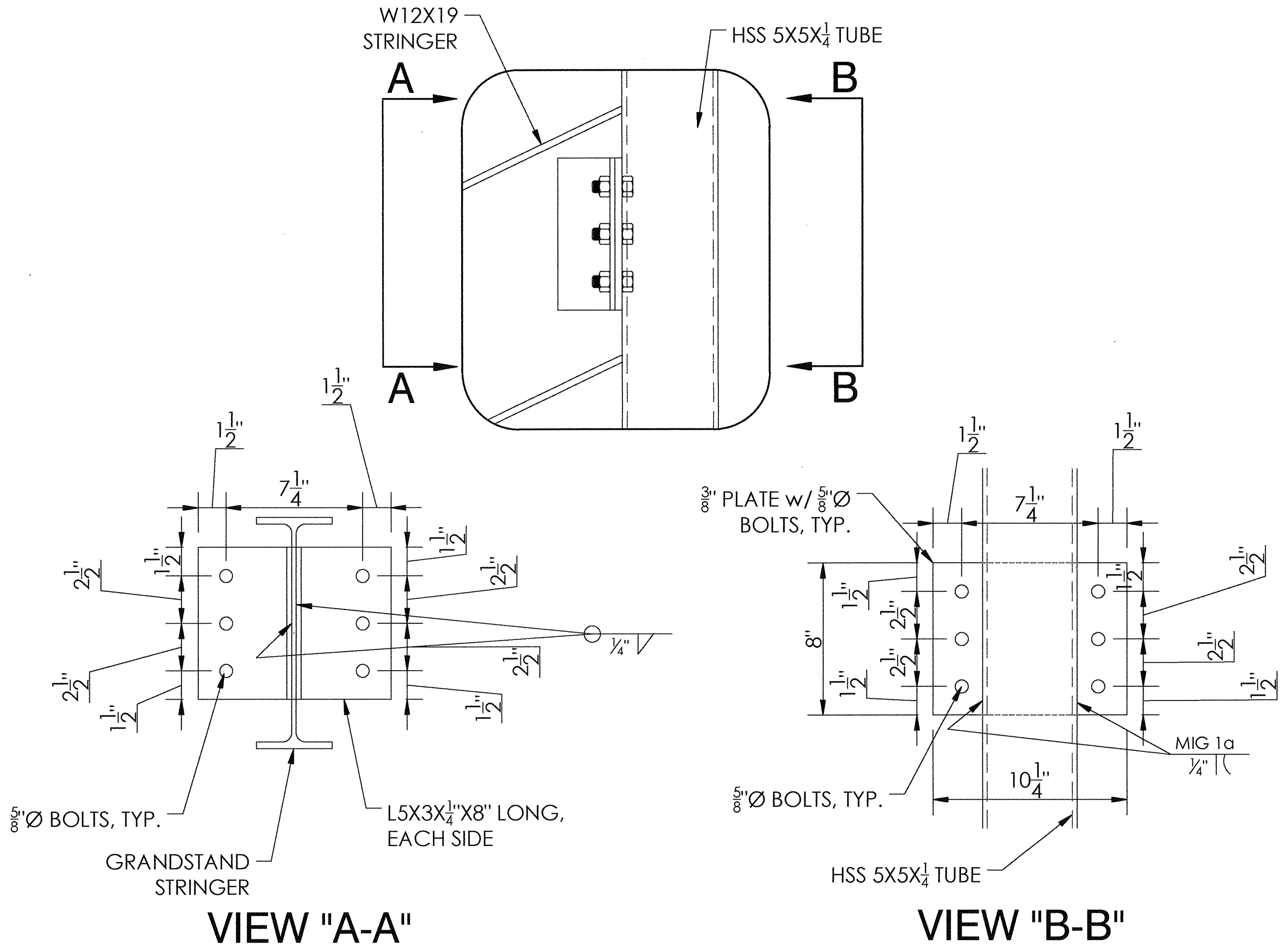
1 SECTION VIEW @ LIGHT POLE
B25A SCALE:1/2"=1'-0"

HOME SIDE
STRINGER # 2, COLUMN LINE D1
STRINGER # 23, COLUMN LINE D6

VISITOR SIDE
STRINGER #2, COLUMN LINE D1
STRINGER #11, COLUMN LINE D4

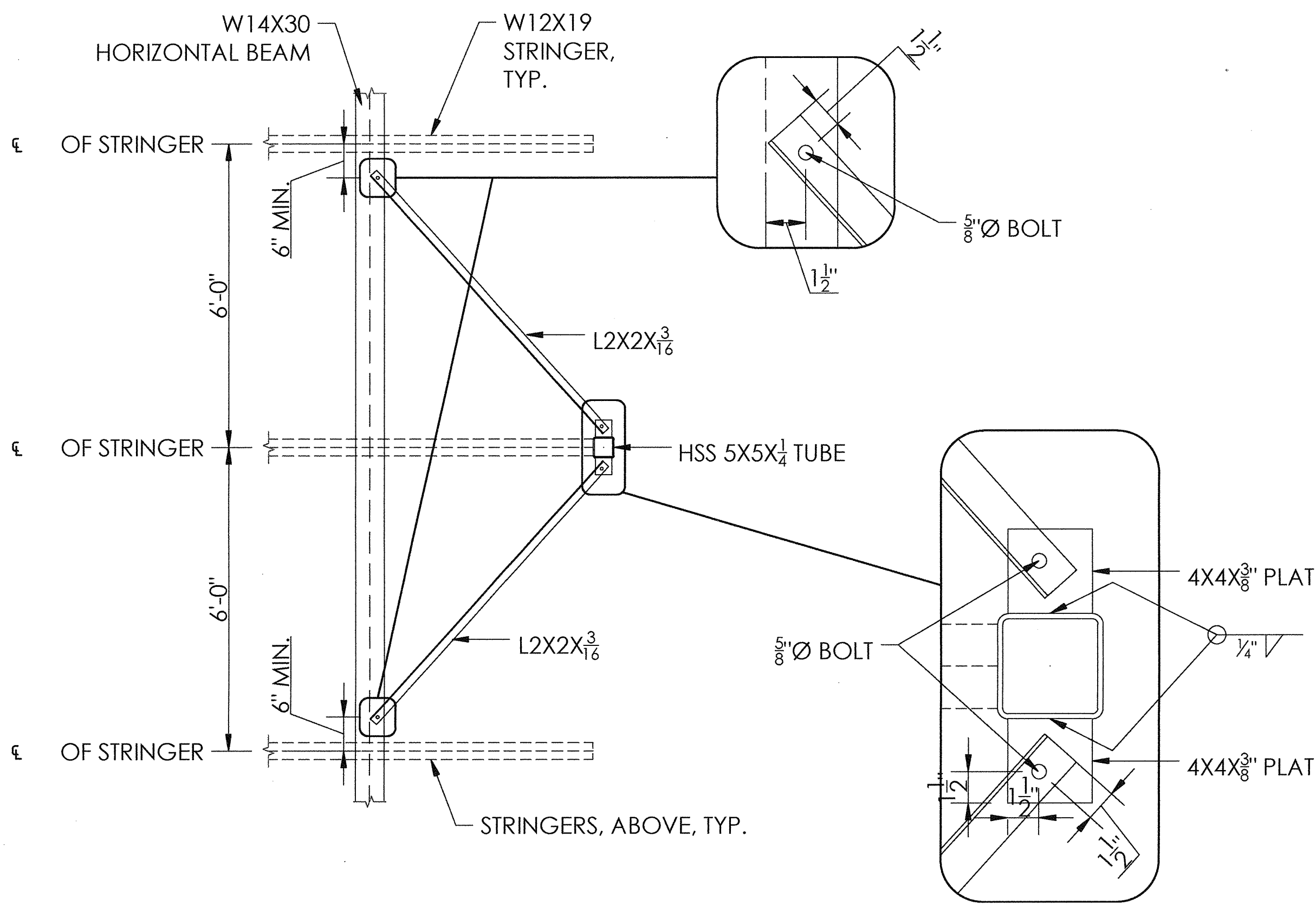


2 STRUT CONNECTION @ "D" ROW
B25A NOT TO SCALE

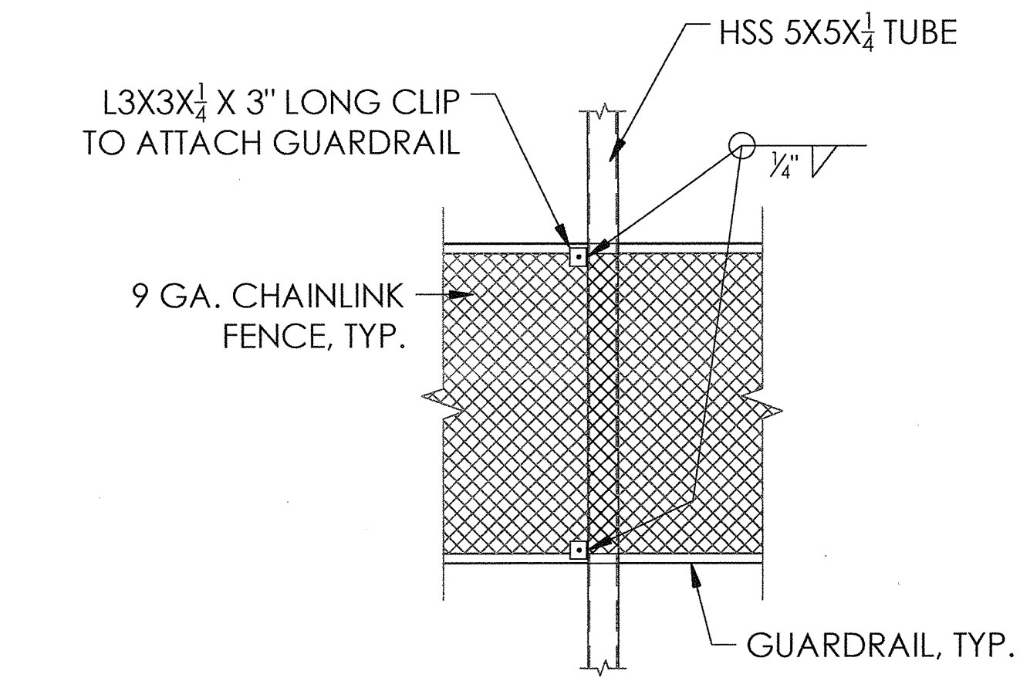


W12X19 STRINGER
HSS 5X5X$\frac{1}{4}$ TUBE
A
A
B
B
$1\frac{1}{2}$"
$7\frac{1}{4}$"
$2\frac{1}{2}$"
$1\frac{1}{2}$"
$\frac{1}{4}$
$\frac{5}{8}$"Ø BOLTS, TYP.
GRANDSTAND STRINGER
L5X3X$\frac{1}{2}$"X8" LONG, EACH SIDE
$\frac{3}{8}$" PLATE w/ $\frac{5}{8}$"Ø BOLTS, TYP.
8"
MIG 1a
$\frac{1}{4}$"
$10\frac{1}{4}$"
$\frac{5}{8}$"Ø BOLTS, TYP.
HSS 5X5X$\frac{1}{4}$ TUBE
VIEW "A-A"
VIEW "B-B"

3 LIGHT POLE CONNECTION @ "D" ROW
B25A NOT TO SCALE



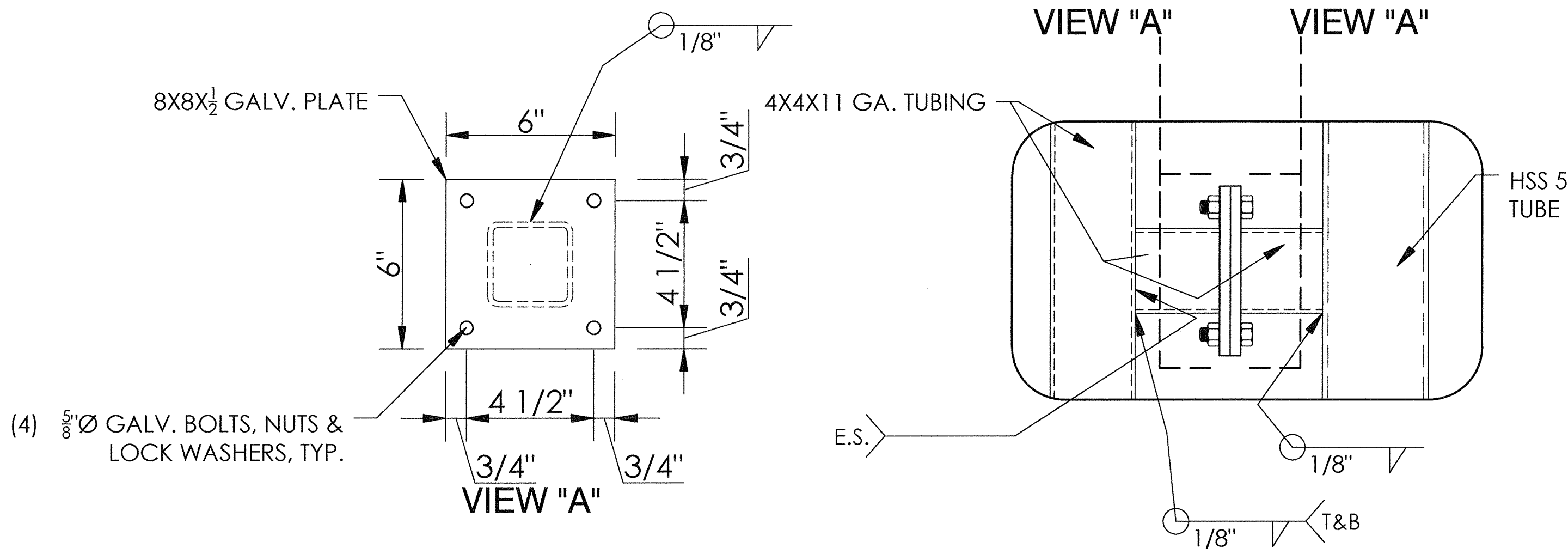
4 ANGLE CONNECTION DETAIL
B25A NOT TO SCALE



HSS 5X5X$\frac{1}{4}$ TUBE
L3X3X$\frac{1}{4}$ X 3" LONG CLIP TO ATTACH GUARDRAIL
$\frac{1}{4}$"
9 GA. CHAINLINK FENCE, TYP.
GUARDRAIL, TYP.

A# 03-117117
AC N.N. FLS ____ SS ____
DATE FEB 0 3 2017
FILE # 19-H10

5 RAIL CONNECTION DETAIL @ LIGHT POLES
B25A NOT TO SCALE



8X8X$\frac{1}{2}$ GALV. PLATE
1/8"
6"
4X4X11 GA. TUBING
3/4"
4 1/2"
3/4"
6"
(4) $\frac{5}{8}$"Ø GALV. BOLTS, NUTS & LOCK WASHERS, TYP.
4 1/2"
3/4"
3/4"
VIEW "A"
VIEW "A"
VIEW "A"
HSS 5X5X$\frac{1}{4}$ TUBE
E.S.
1/8"
1/8"
T&B

6 CONNECTION DETAIL @ PRESS BOX
B25A NOT TO SCALE

DETAIL NUMBER
SHEET SHOWN ON

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PH: (559)449-8444 • FAX: (559)449-8404

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PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
CALIFORNIA

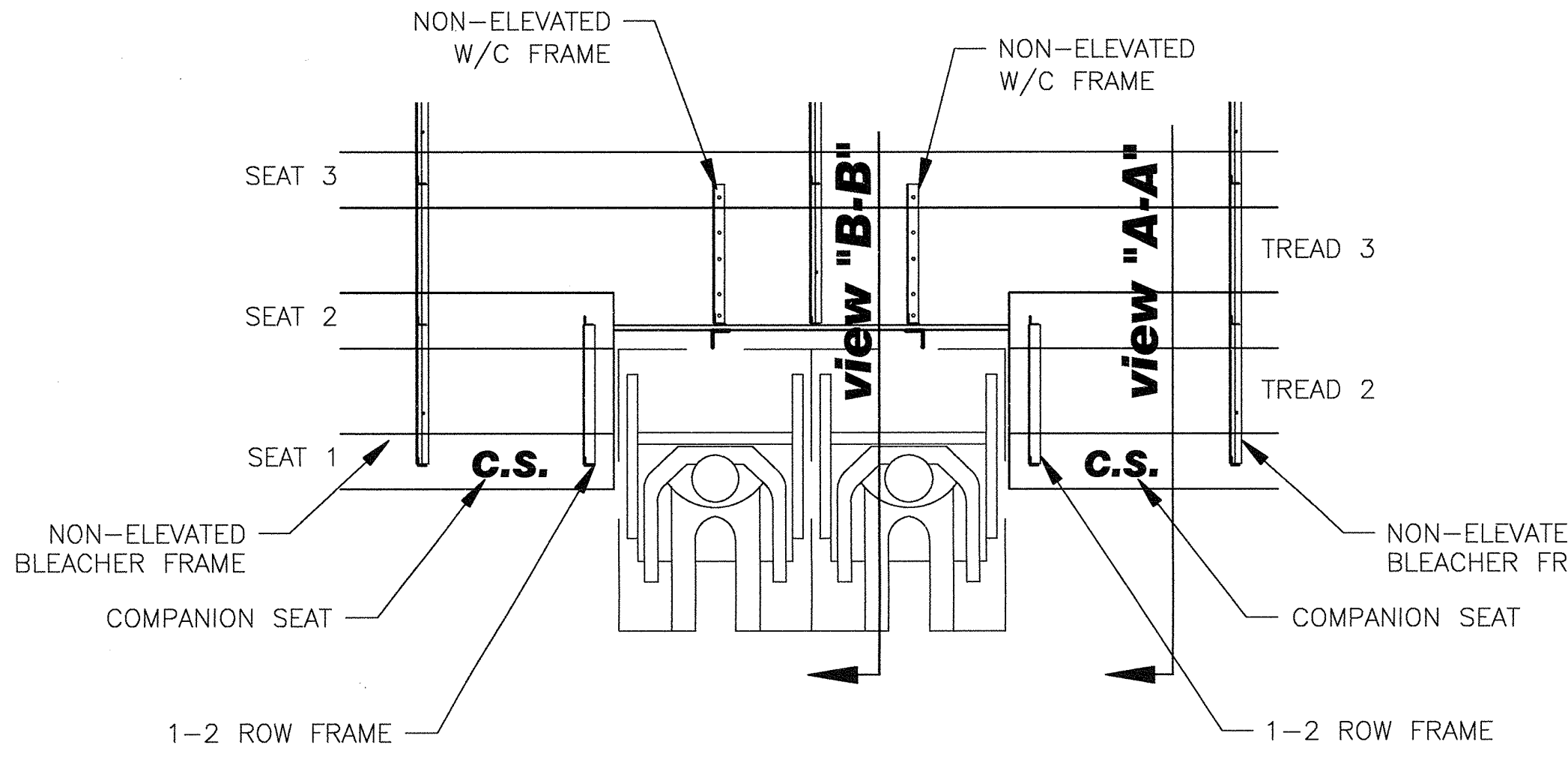
TYPE
DETAIL SHEET

TITLE
EL MONTE UNION H.S. DISTRICT
EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

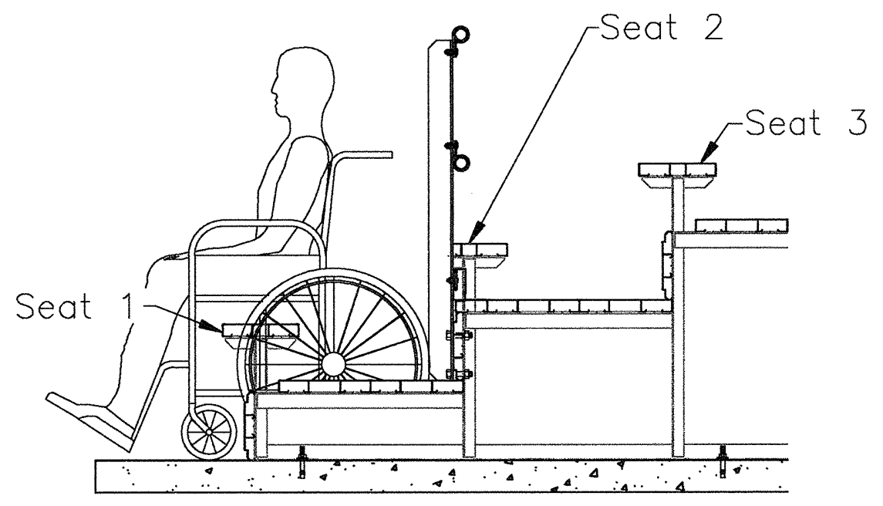
REV	BY	DATE	DESCRIPTION
5	ECM	12/13/16	DETAIL CALLOUTS
4	MG	10/14/16	DSA COMMENTS
3	MG	04/08/16	NO CHANGE TO THIS PAGE
2	MG	03/03/16	NO CHANGE TO THIS PAGE
1	MG	12/15/15	ADDED PAGE 25A

DATE 3/23/15
DRAWN AA
CHECKED DMc
JOB NUMBER 14202
SHEET B-25A OF B-30

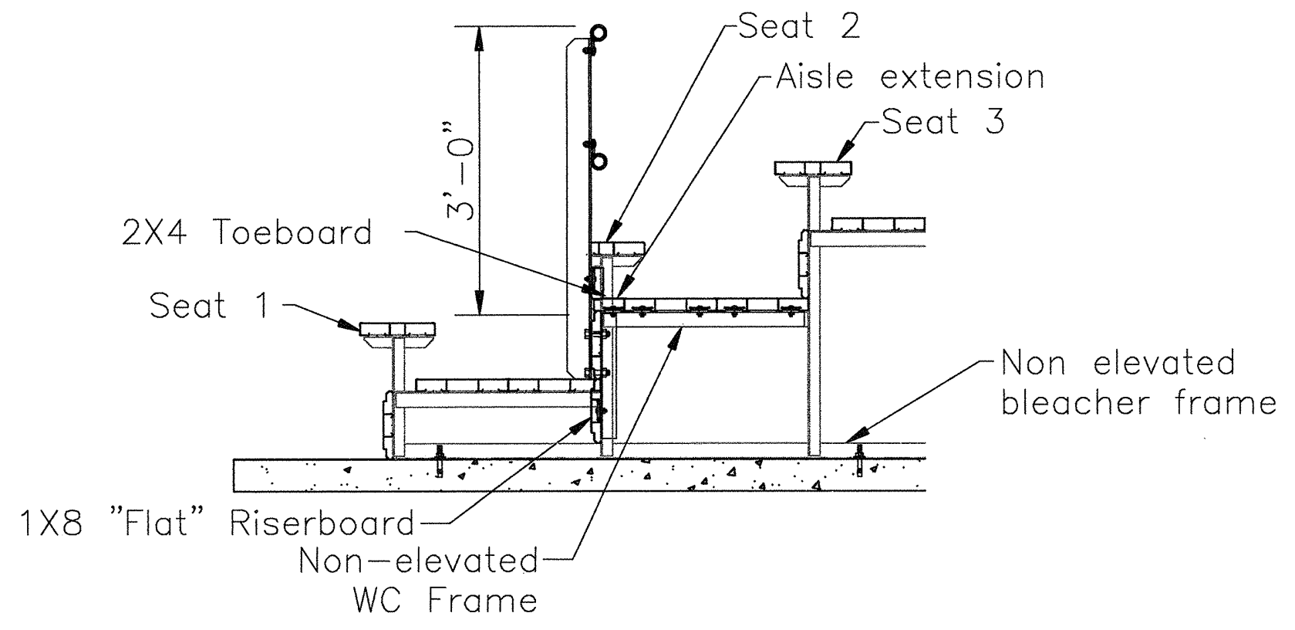
22" X 34" (11x17 = 1/2 indicated scale)



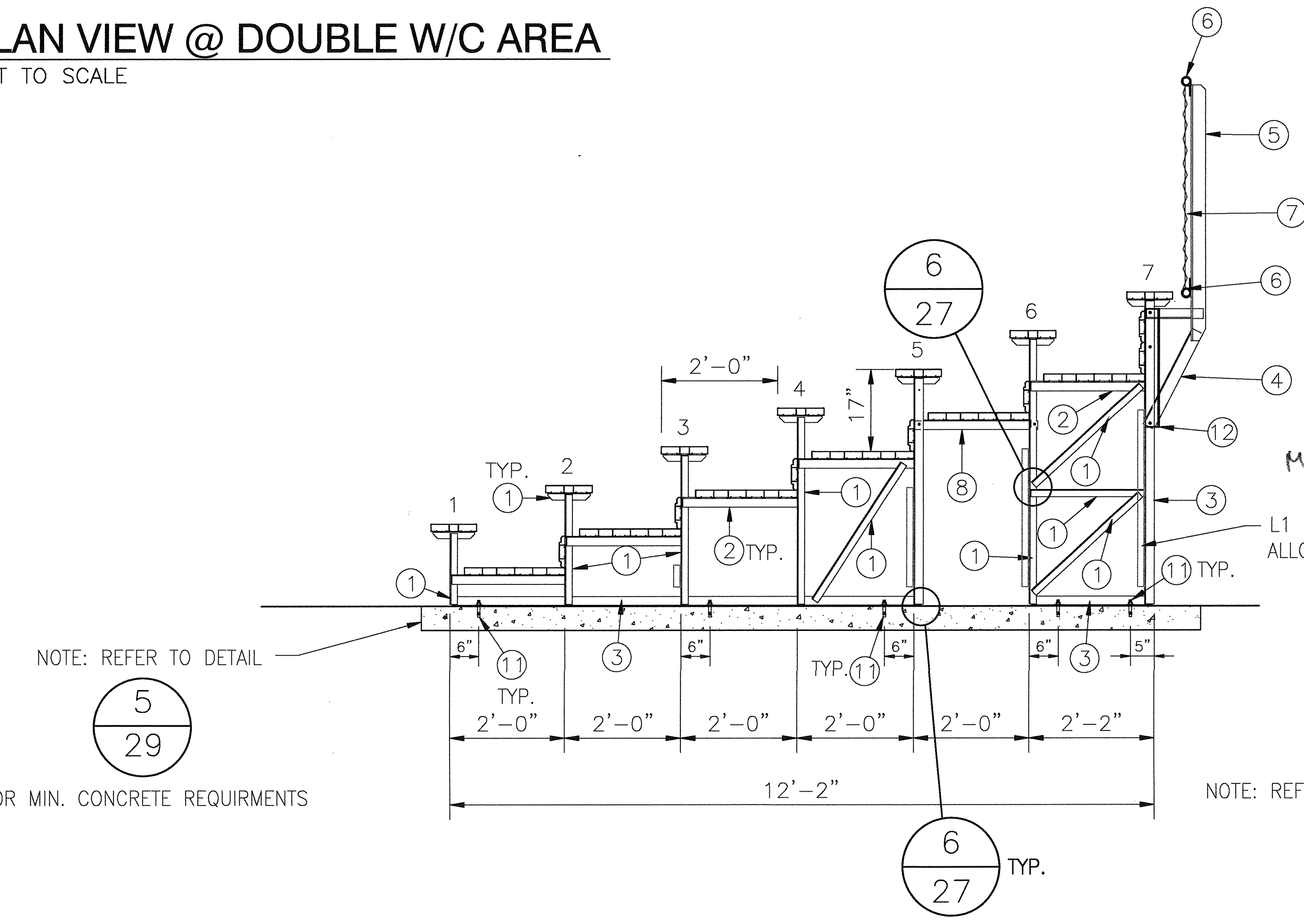
3/26 PLAN VIEW @ DOUBLE W/C AREA
NOT TO SCALE



view "A-A"



view "B-B"



NOTE: REFER TO DETAIL 5/29 FOR MIN. CONCRETE REQUIRMENTS

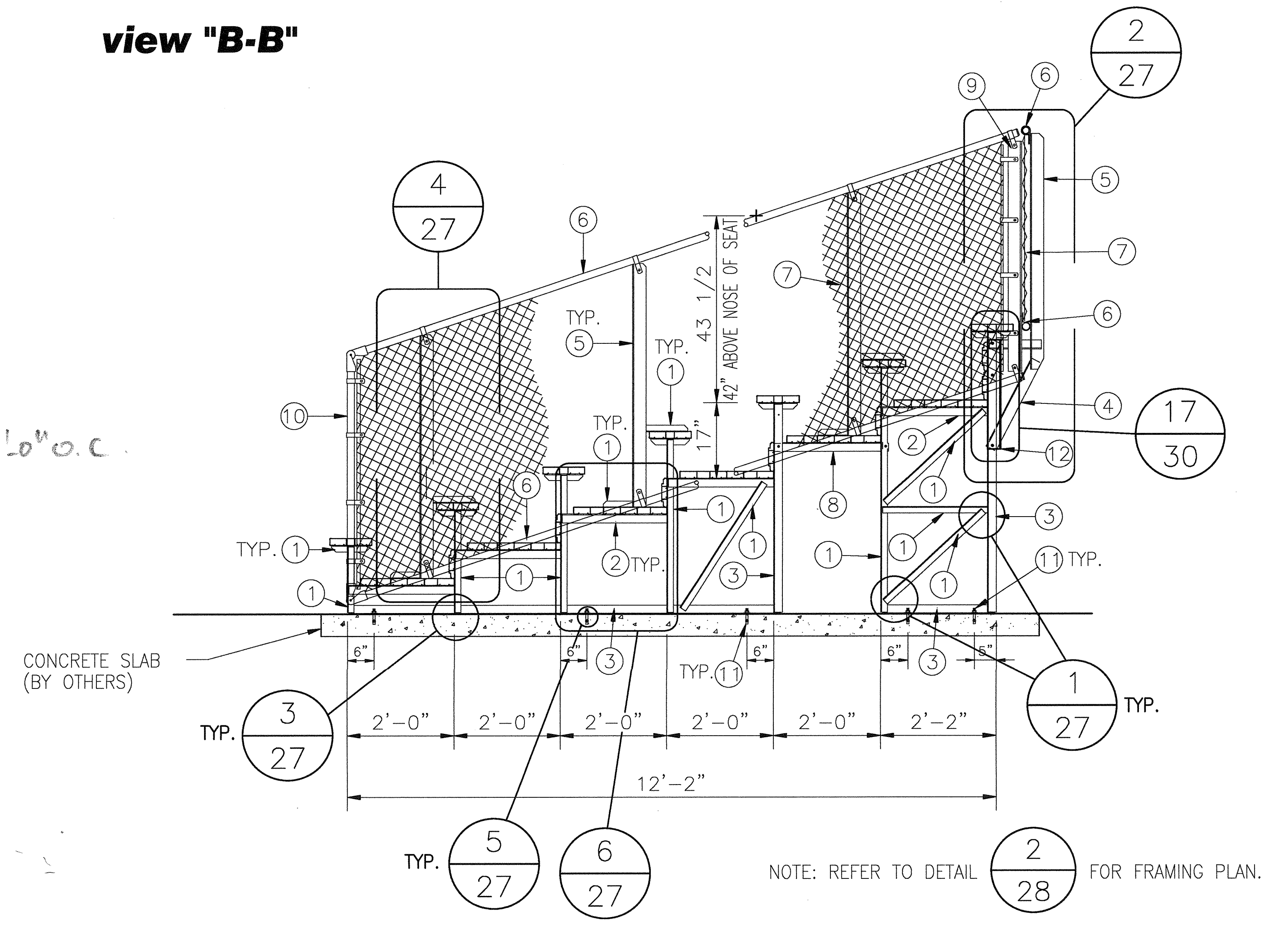
MAX. spacing of Frame 6'-0" O.C

L1 1/2" X 1 1/2" X 3/16" ALUM. 6061-T6 ALLOY CROSSBRACES (TYP)

NOTE: REFER TO DETAILS 1/28 4/28

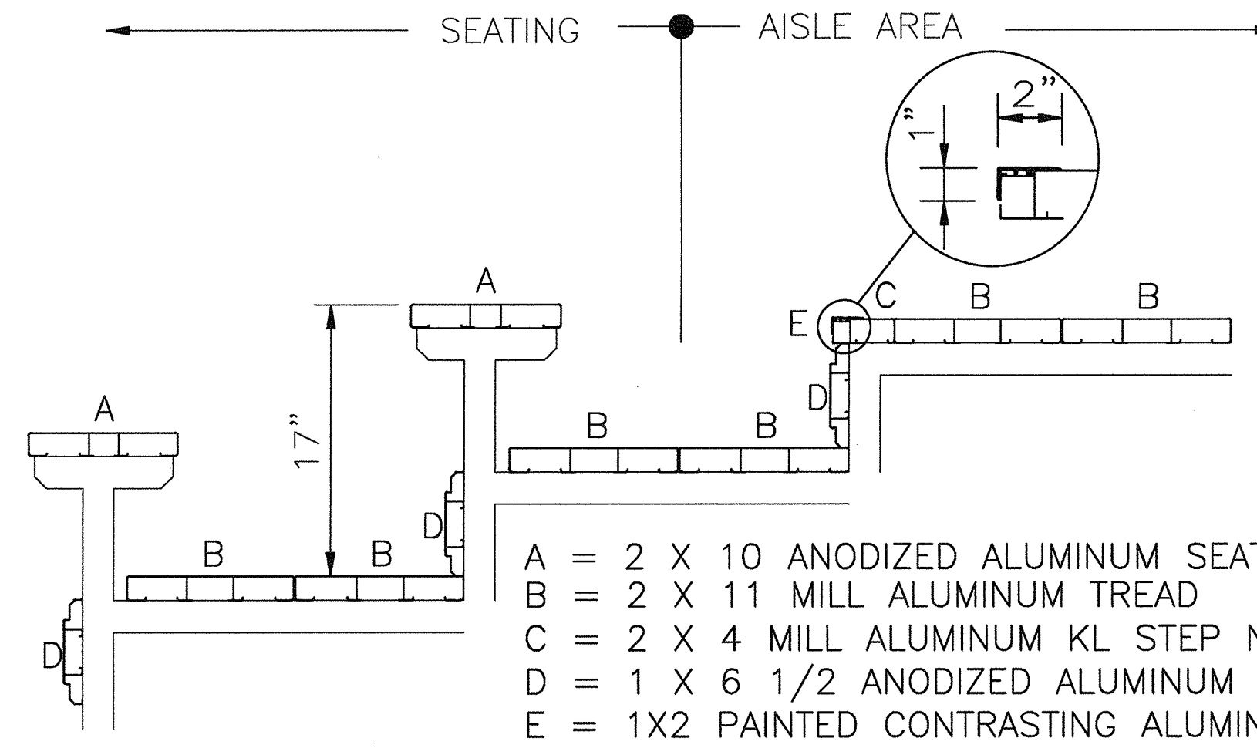
NOTE: REFER TO DETAIL 2/28 FOR FRAME SPACING.

1/26 SECTION VIEW: 7 ROW NON-ELEVATED
SCALE:NONE



NOTE: REFER TO DETAIL 2/28 FOR FRAMING PLAN.

1/26 SIDE VIEW: 7 ROW NON-ELEVATED
SCALE:NONE



A = 2 X 10 ANODIZED ALUMINUM SEAT
B = 2 X 11 MILL ALUMINUM TREAD
C = 2 X 4 MILL ALUMINUM KL STEP NOSE
D = 1 X 6 1/2 ANODIZED ALUMINUM FLAT RISER
E = 1X2 PAINTED CONTRASTING ALUMINUM AISLE NOSING (BLACK) 15/30

2/26 PLANK ARRANGEMENT
1" = 1'-0" 8" X 24"

ITEM DESCRIPTION

①	L 1 1/2 X 1 1/2 X 3/16 GALV. (50 ksi)
②	L 2 X 1 1/2 X 3/16 GALV. (50 ksi)
③	L 2 X 2 X 3/16 GALV. (50 ksi)
④	L 2 1/2 X 2 X 3/16 GALV. (50 ksi)
⑤	L 3 X 3 X 1/4 GALV. (50 ksi)
⑥	ANODIZED ALUMINUM RAIL (SEE NOTE) 6/30
⑦	(NOT USED)
⑧	L 2 X 1 1/2 X 3/16 ALUMINUM (6061-T6 ALLOY)
⑨	L 2 X 2 X 3/16 ALUMINUM (6061-T6 ALLOY)
⑩	1 5/8 SCH. 40 ANODIZED ALUMINUM PIPE (6061-T6 ALLOY) 13/30
⑪	3/8 X 3 3/4 STAINLESS STEEL CONCRETE WEDGE ANCHOR
⑫	L 3 X 2 X 3/16 GALV. (50 ksi)

DESIGN LOADING
TREAD & SEAT AREA (GROSS AREA) 100psf.
SEAT (PERPENDICULAR SWAY) 10 lbs/lf.
SEAT (PARALLEL SWAY) 24lbs/lf.
HANDRAILS (PERPENDICULAR) 50 lbs/lf.
HANDRAILS (VERTICAL) 100 lbs/lf.
SEAT & TREAD 120 lbs/lf.

NOTES
1. STRUCTURAL SHAPES MEET ONE OF THE FOLLOWING ASTM SPECIFICATIONS: A572 GRADE 50, A529-50, OR A500 GRADE B.
2. WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG.
3. ALL STEEL TO BE HOT DIPPED GALVANIZED TO A.S.T.M. A-123-89 ae1.
4. STRUCTURAL BOLTS ARE HOT DIPPED GALV. AND ARE EQUAL TO OR GREATER THAN A-307.
5. ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE. 6/30
6. ANODIZED ALUMINUM SCH. 40 PIPE IS 1 1/4" NOMINAL PIPE SIZE. 13/30

A# 03-117117
AC N.N. FLS 64 SS
DATE FEB 0 3 2017
FILE # 19-H10

DETAIL NUMBER
SHEET SHOWN ON
SHEET CUT FROM

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Established 1946

GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18

TYPE
SIDE VIEW
8" RISE X 24" TREAD 7-ROW ANGLE FRAME BLEACHER

TITLE
EL MONTE UNION HS DISTRICT
EL MONTE HS -POOL
EL MONTE, CALIFORNIA

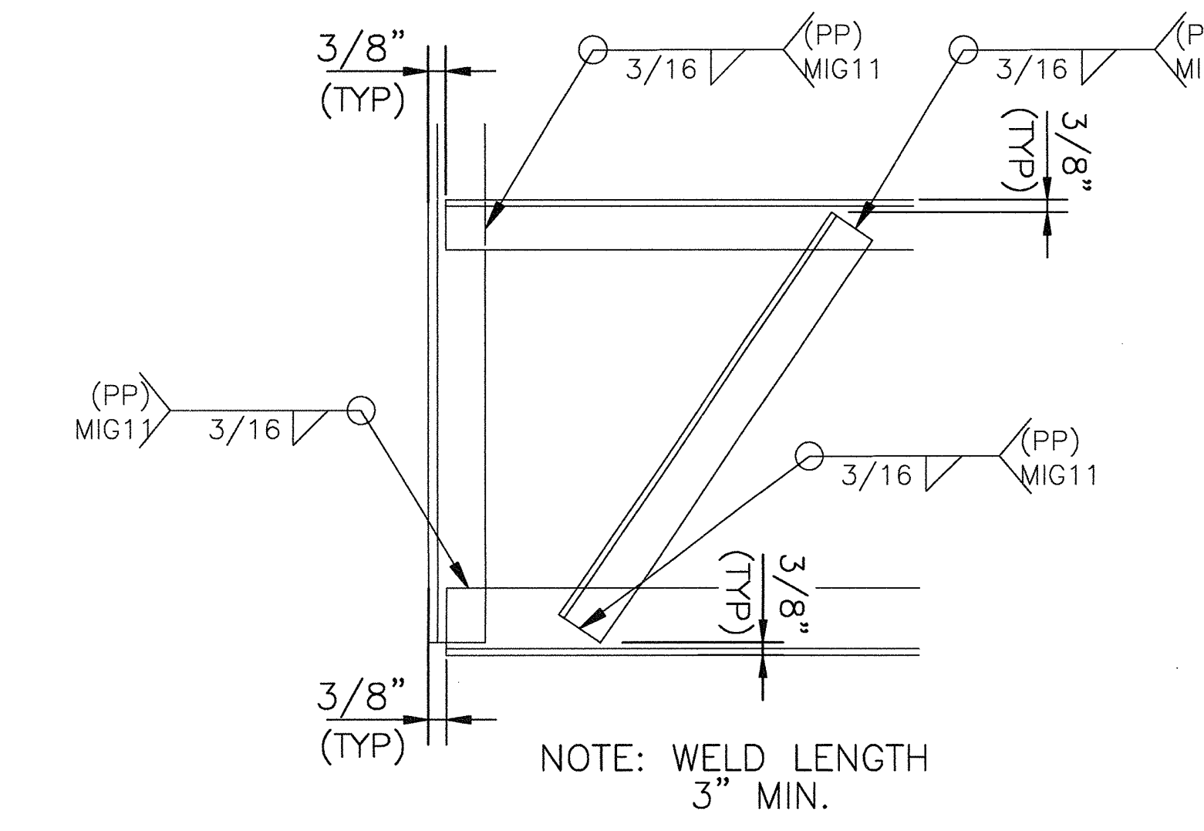
REV	BY	DATE	DESCRIPTION
5	BU	12/13/16	DSA COMMENTS
4	BU	10/14/16	DSA COMMENTS

DATE	DRAWN	CHECKED
3/23/15	BU	DMc

JOB NUMBER
14202

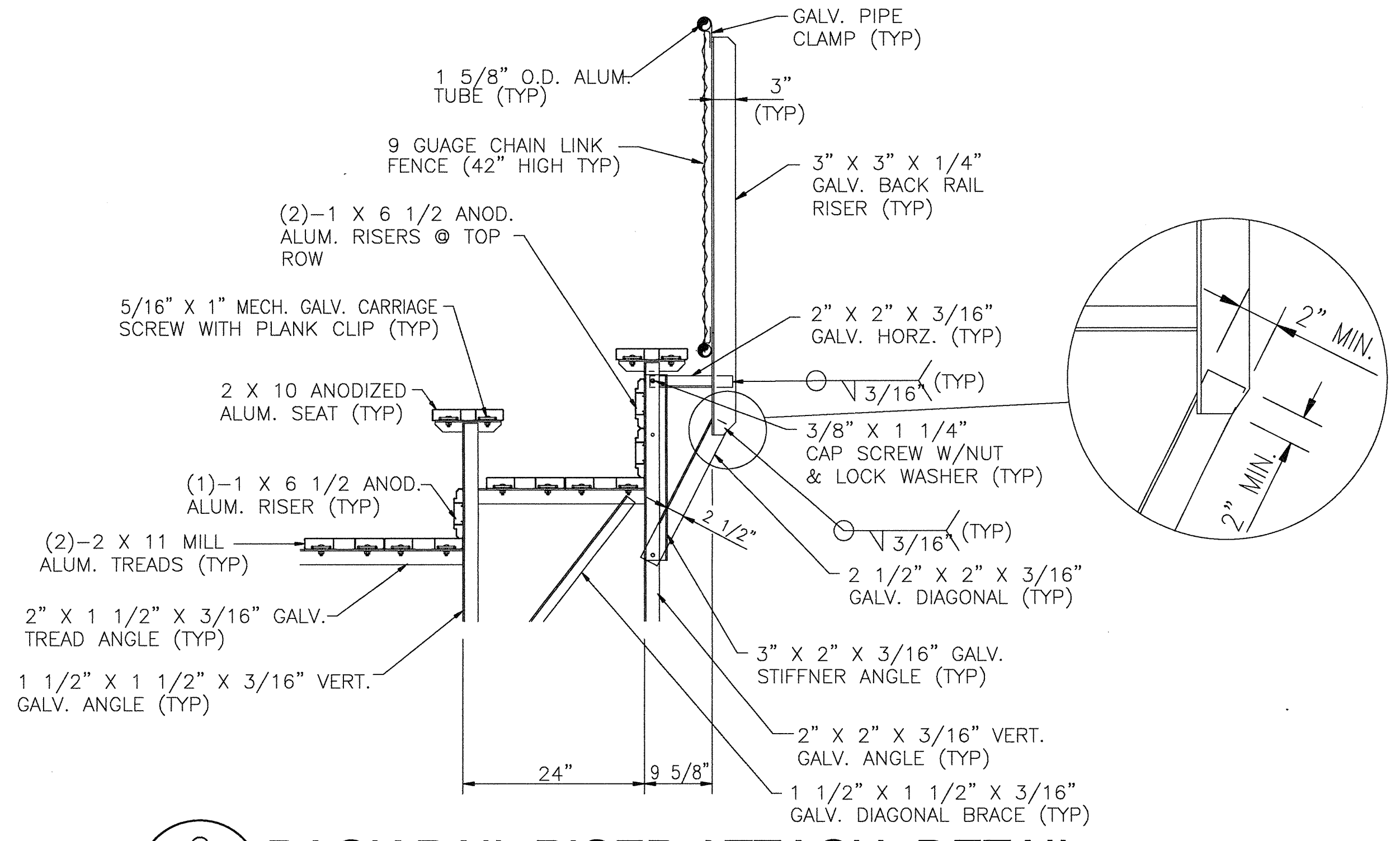
SHEET B-26 OF B-30

22" X 34" (11x17 = 1/2 indicated scale)

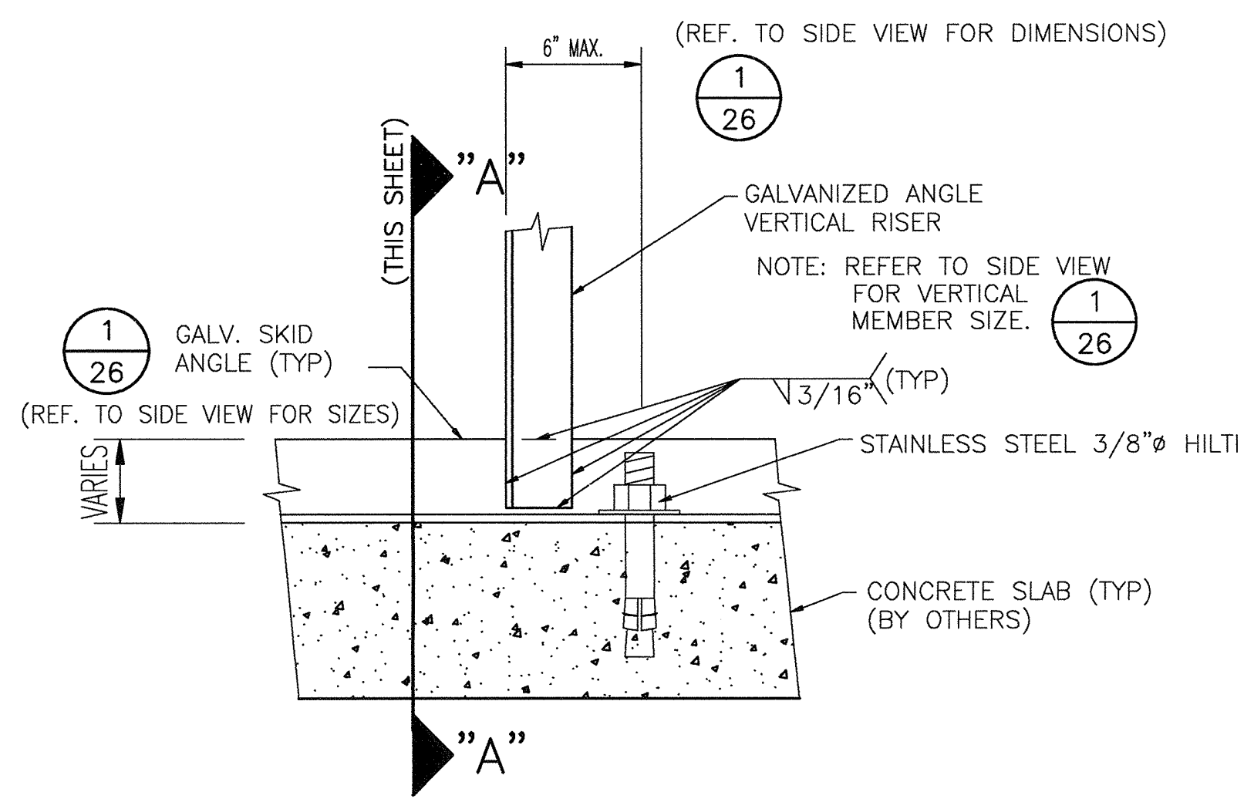


NOTE: WELD LENGTH 3" MIN.

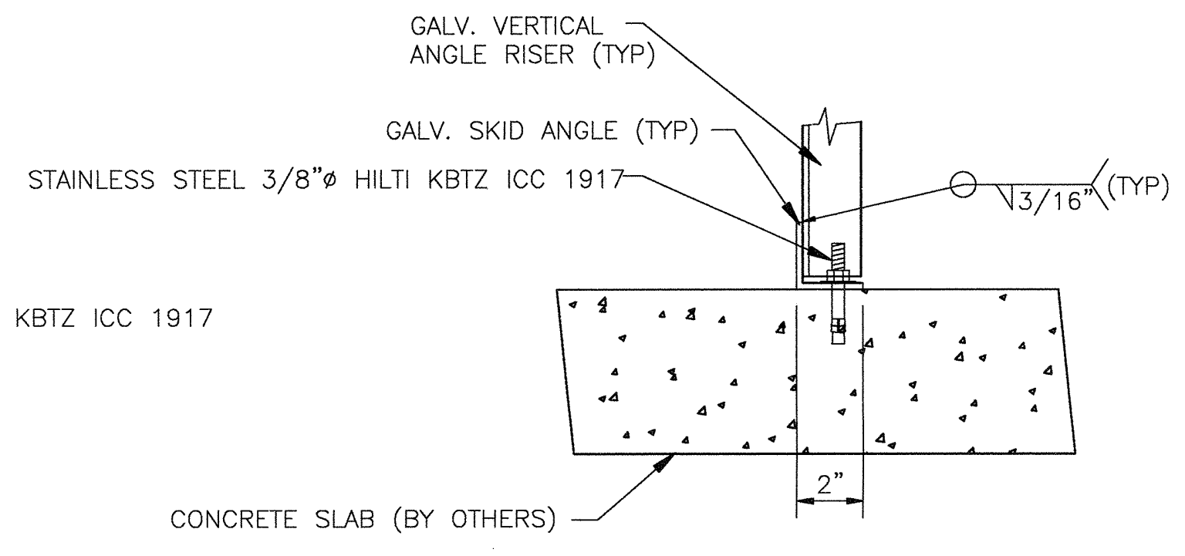
1/27 ATTACHMENT DETAIL
NO SCALE


GALV. PIPE CLAMP (TYP)
1 5/8" O.D. ALUM. TUBE (TYP)
3" (TYP)
9 GUAGE CHAIN LINK FENCE (42" HIGH TYP)
3" X 3" X 1/4" GALV. BACK RAIL RISER (TYP)
(2)-1 X 6 1/2 ANOD. ALUM. RISERS @ TOP ROW
5/16" X 1" MECH. GALV. CARRIAGE SCREW WITH PLANK CLIP (TYP)
2" X 2" X 3/16" GALV. HORZ. (TYP)
3/16 (TYP)
2 X 10 ANODIZED ALUM. SEAT (TYP)
3/8" X 1 1/4" CAP SCREW W/NUT & LOCK WASHER (TYP)
(1)-1 X 6 1/2 ANOD. ALUM. RISER (TYP)
3/16 (TYP)
(2)-2 X 11 MILL ALUM. TREADS (TYP)
2 1/2" X 2" X 3/16" GALV. DIAGONAL (TYP)
2" X 1 1/2" X 3/16" GALV. TREAD ANGLE (TYP)
3" X 2" X 3/16" GALV. STIFFNER ANGLE (TYP)
1 1/2" X 1 1/2" X 3/16" VERT. GALV. ANGLE (TYP)
2" X 2" X 3/16" VERT. GALV. ANGLE (TYP)
1 1/2" X 1 1/2" X 3/16" GALV. DIAGONAL BRACE (TYP)
24"
9 5/8"
2 1/2"
2" MIN.
2" MIN.

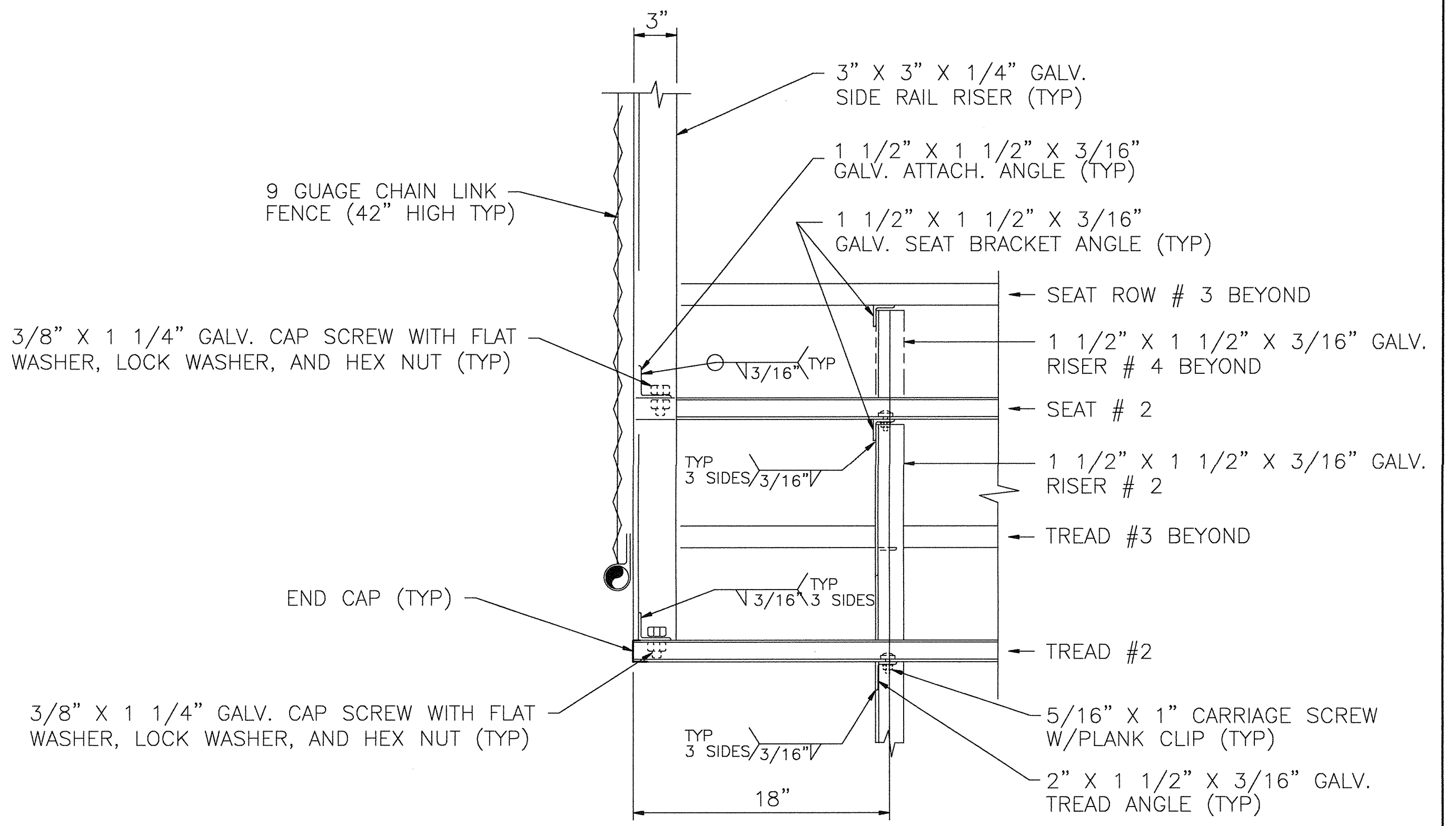
2/27 BACK RAIL RISER ATTACH. DETAIL
NO SCALE


6" MAX.
(REF. TO SIDE VIEW FOR DIMENSIONS)
1/26
"A"
(THIS SHEET)
GALVANIZED ANGLE VERTICAL RISER
NOTE: REFER TO SIDE VIEW FOR VERTICAL MEMBER SIZE.
1/26
1/26 GALV. SKID ANGLE (TYP)
(REF. TO SIDE VIEW FOR SIZES)
3/16 (TYP)
VARIES
STAINLESS STEEL 3/8"ø HILTI KBTZ ICC 1917
CONCRETE SLAB (TYP) (BY OTHERS)
"A"

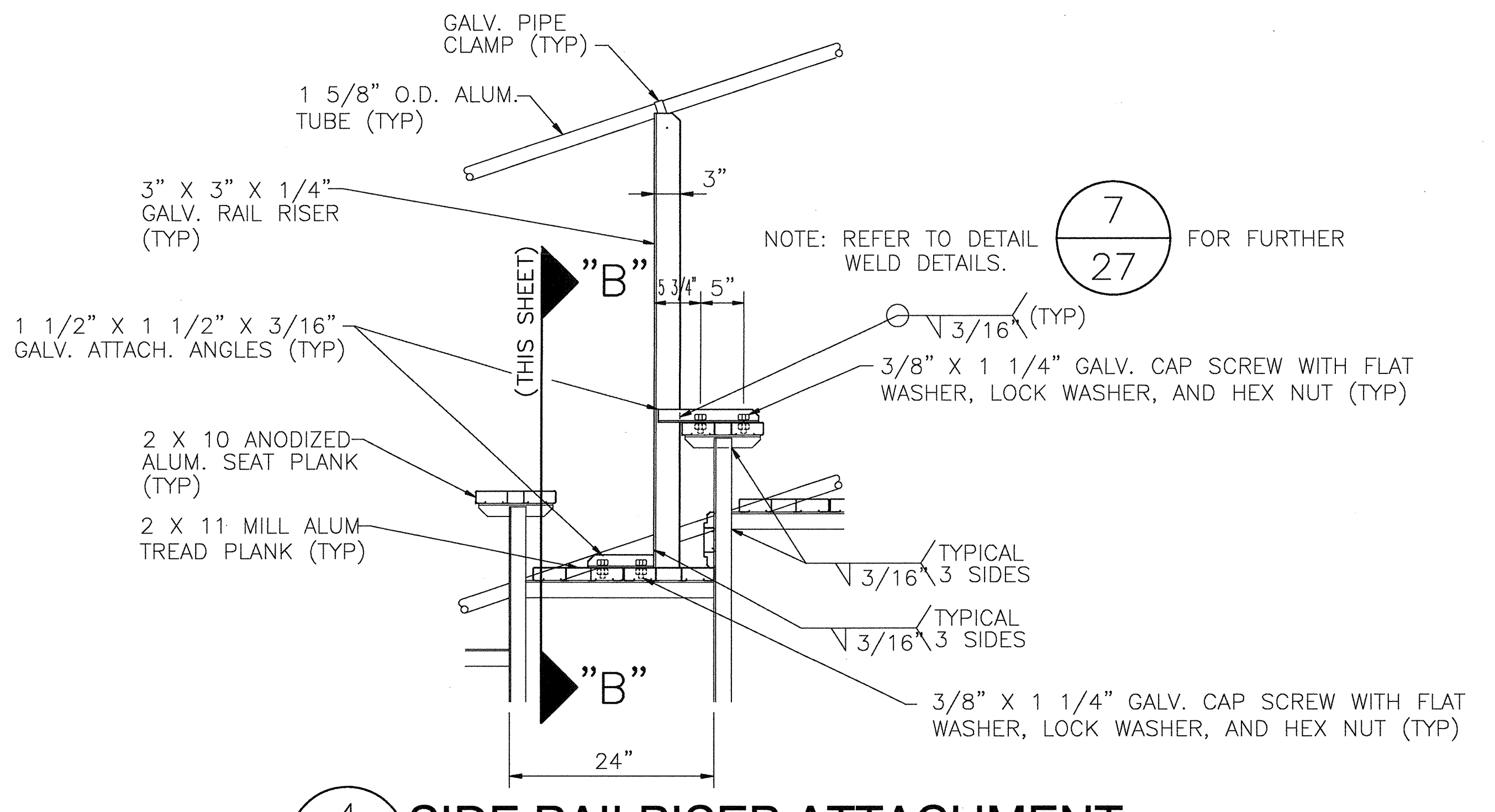
3/27 VERTICAL ANGLE ATTACH. TO SKID ANGLE
NO SCALE


GALV. VERTICAL ANGLE RISER (TYP)
GALV. SKID ANGLE (TYP)
STAINLESS STEEL 3/8"ø HILTI KBTZ ICC 1917
3/16 (TYP)
2"
CONCRETE SLAB (BY OTHERS)

SECTION "A"–"A"
NO SCALE

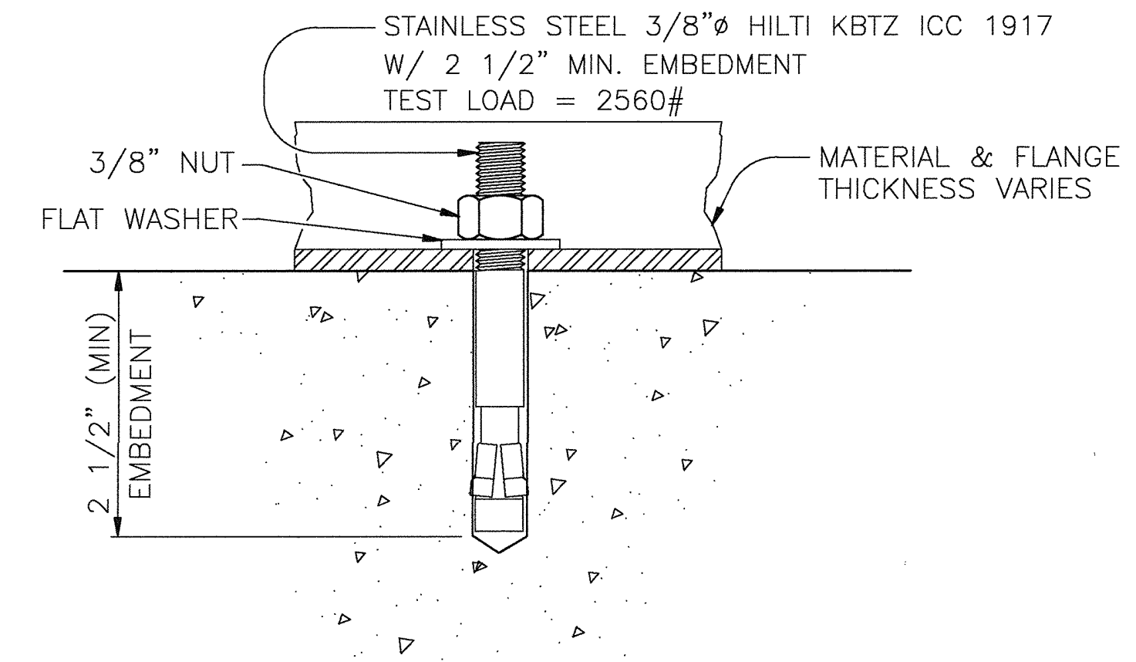

3"
3" X 3" X 1/4" GALV. SIDE RAIL RISER (TYP)
1 1/2" X 1 1/2" X 3/16" GALV. ATTACH. ANGLE (TYP)
1 1/2" X 1 1/2" X 3/16" GALV. SEAT BRACKET ANGLE (TYP)
9 GUAGE CHAIN LINK FENCE (42" HIGH TYP)
SEAT ROW # 3 BEYOND
3/8" X 1 1/4" GALV. CAP SCREW WITH FLAT WASHER, LOCK WASHER, AND HEX NUT (TYP)
1 1/2" X 1 1/2" X 3/16" GALV. RISER # 4 BEYOND
3/16 TYP
SEAT # 2
TYP 3 SIDES 3/16
1 1/2" X 1 1/2" X 3/16" GALV. RISER # 2
TREAD #3 BEYOND
END CAP (TYP)
TYP 3/16 3 SIDES
TREAD #2
3/8" X 1 1/4" GALV. CAP SCREW WITH FLAT WASHER, LOCK WASHER, AND HEX NUT (TYP)
TYP 3 SIDES 3/16
5/16" X 1" CARRIAGE SCREW W/PLANK CLIP (TYP)
2" X 1 1/2" X 3/16" GALV. TREAD ANGLE (TYP)
18"

SECTION "B"–"B"
NO SCALE

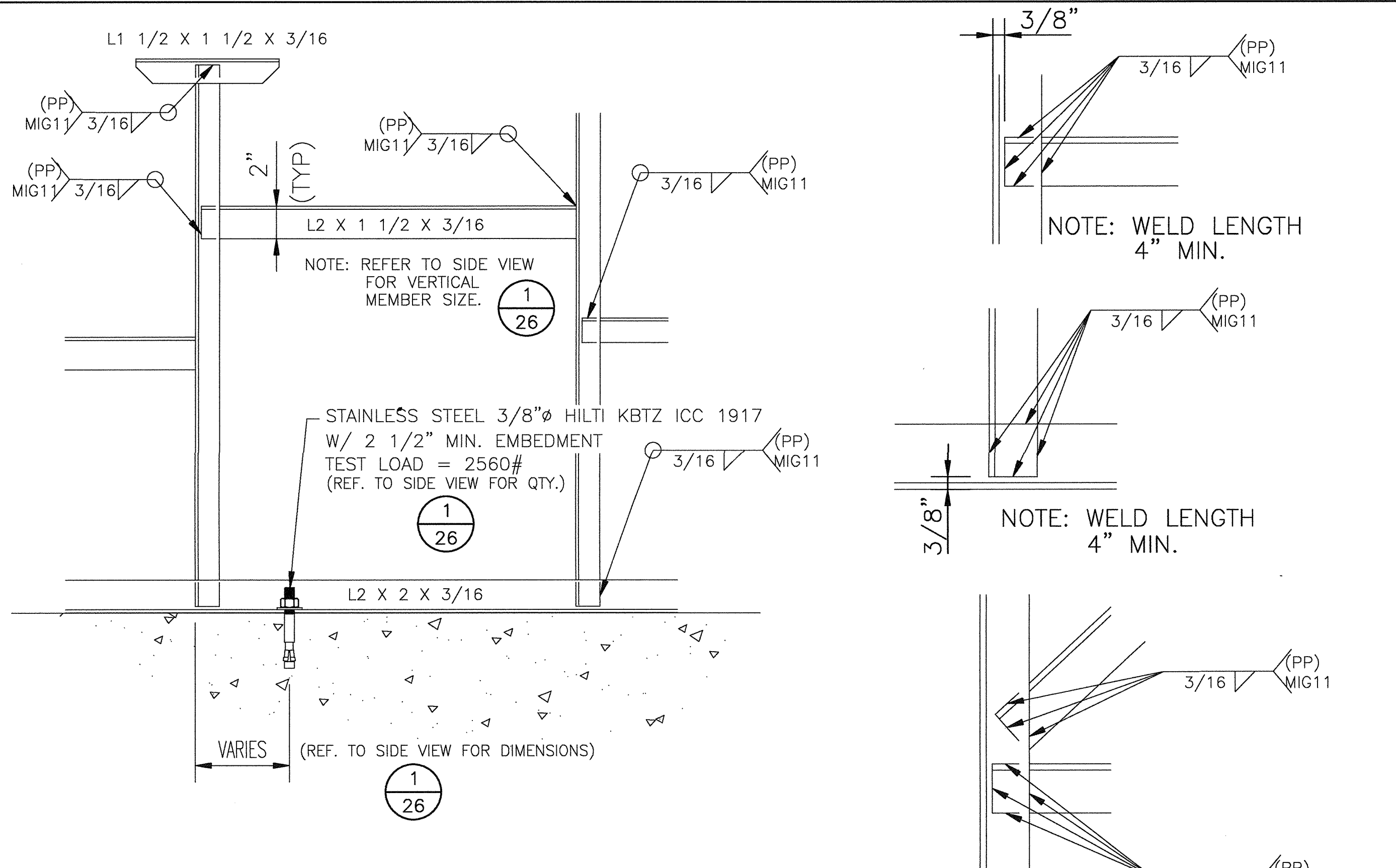

GALV. PIPE CLAMP (TYP)
1 5/8" O.D. ALUM. TUBE (TYP)
3" X 3" X 1/4" GALV. RAIL RISER (TYP)
3"
(THIS SHEET)
"B"
3.5"
1.5"
1 1/2" X 1 1/2" X 3/16" GALV. ATTACH. ANGLES (TYP)
3/16 (TYP)
3/8" X 1 1/4" GALV. CAP SCREW WITH FLAT WASHER, LOCK WASHER, AND HEX NUT (TYP)
2 X 10 ANODIZED ALUM. SEAT PLANK (TYP)
2 X 11 MILL ALUM. TREAD PLANK (TYP)
3/16 TYPICAL 3 SIDES
3/16 TYPICAL 3 SIDES
"B"
3/8" X 1 1/4" GALV. CAP SCREW WITH FLAT WASHER, LOCK WASHER, AND HEX NUT (TYP)
24"

NOTE: REFER TO DETAIL 7/27 WELD DETAILS. FOR FURTHER

4/27 SIDE RAILRISER ATTACHMENT
NO SCALE (NOTE: 5/16" X 1" CARRIAGE SCREW W/PLANK CLIP OMITTED FOR CLARITY)


STAINLESS STEEL 3/8"ø HILTI KBTZ ICC 1917 W/ 2 1/2" MIN. EMBEDMENT TEST LOAD = 2560#
3/8" NUT
MATERIAL & FLANGE THICKNESS VARIES
FLAT WASHER
2 1/2" (MIN) EMBEDMENT

5/27 WEDGE ANCHOR DETAIL
NO SCALE

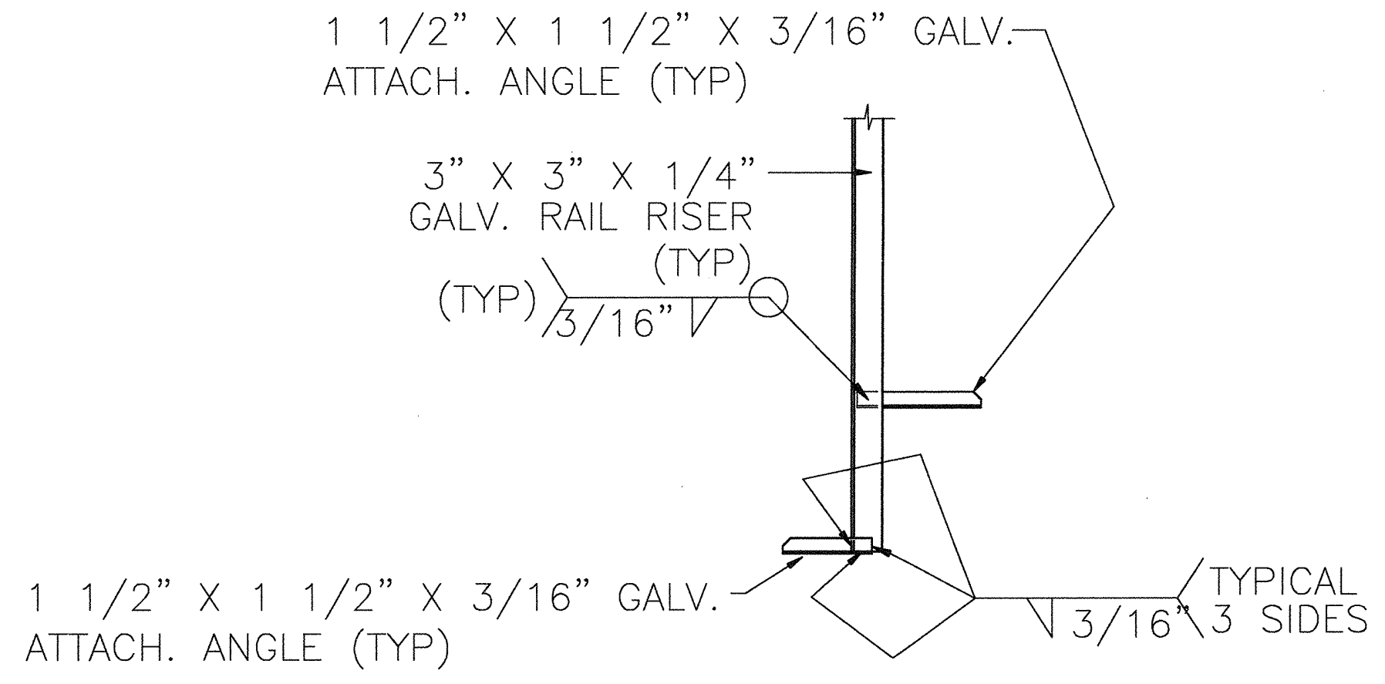


NOTE: WELD LENGTH 4" MIN.

NOTE: WELD LENGTH 4" MIN.

NOTE: WELD LENGTH 4" MIN.

6/27 ANGLE FAB DETAIL
SCALE: NONE


1 1/2" X 1 1/2" X 3/16" GALV. ATTACH. ANGLE (TYP)
3" X 3" X 1/4" GALV. RAIL RISER (TYP)
(TYP) 3/16"
1 1/2" X 1 1/2" X 3/16" GALV. ATTACH. ANGLE (TYP)
3/16 TYPICAL 3 SIDES

7/27 WELD DETAIL
NO SCALE

A# 03-117117
AC N.N. FLS 07 SS
DATE FEB 0 3 2017
FILE # 19-H10

1/3 10 — DETAIL NUMBER — SHEET SHOWN ON — SHEET CUT FROM

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Established 1946

GAYLORD R. RANSOM
NO. S2386
EXPIRES 3-31-18

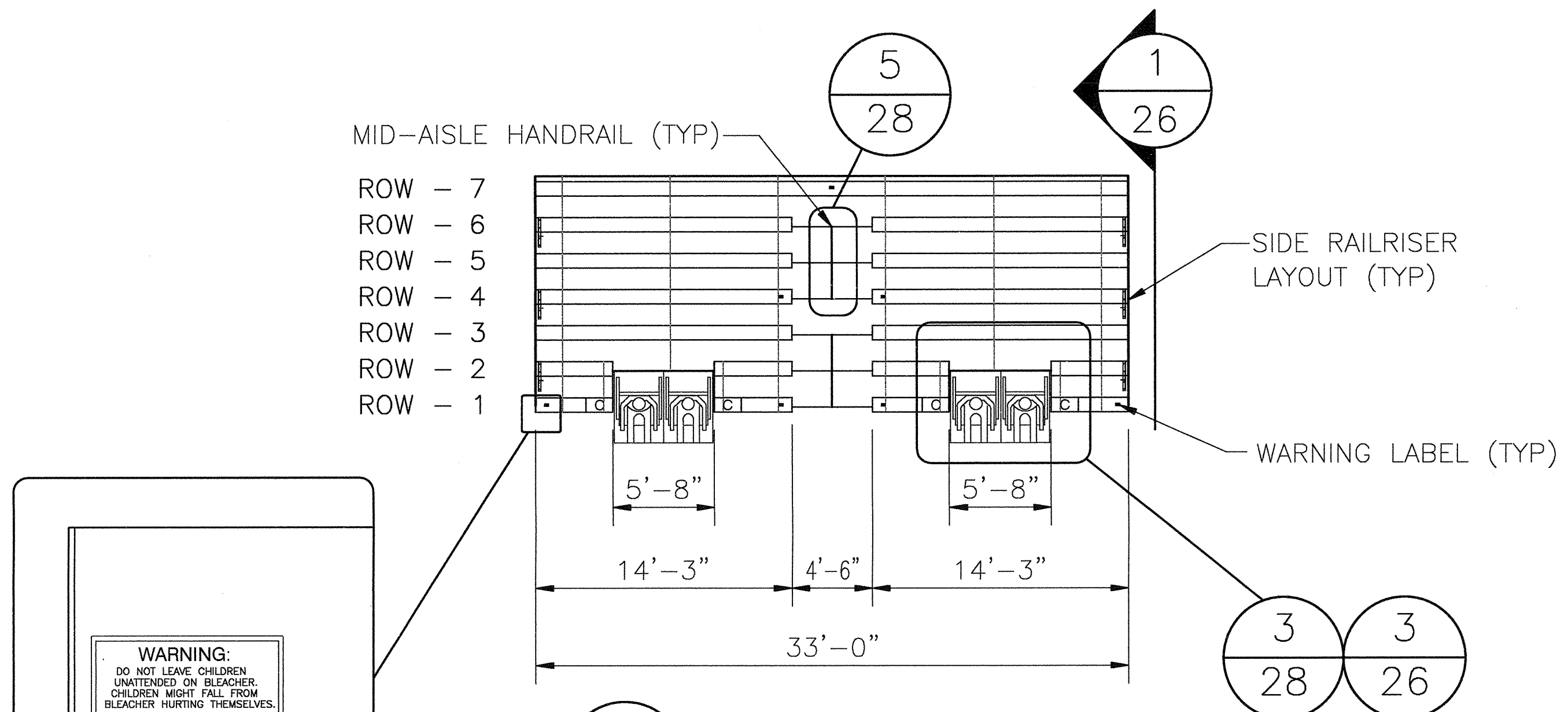
TYPE
ANGLE FAB/GUARDRAIL DETAILS
8" RISE X 24" TREAD 7-ROW ANGLE FRAME BLEACHER

TITLE
EL MONTE UNION HS DISTRICT
EL MONTE HS – POOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
5	BU	12/13/16	NONE
4	BU	10/14/16	DSA COMMENTS

DATE 3/23/15
DRAWN BU
CHECKED DMc
JOB NUMBER 14202
SHEET B-27 OF B-30

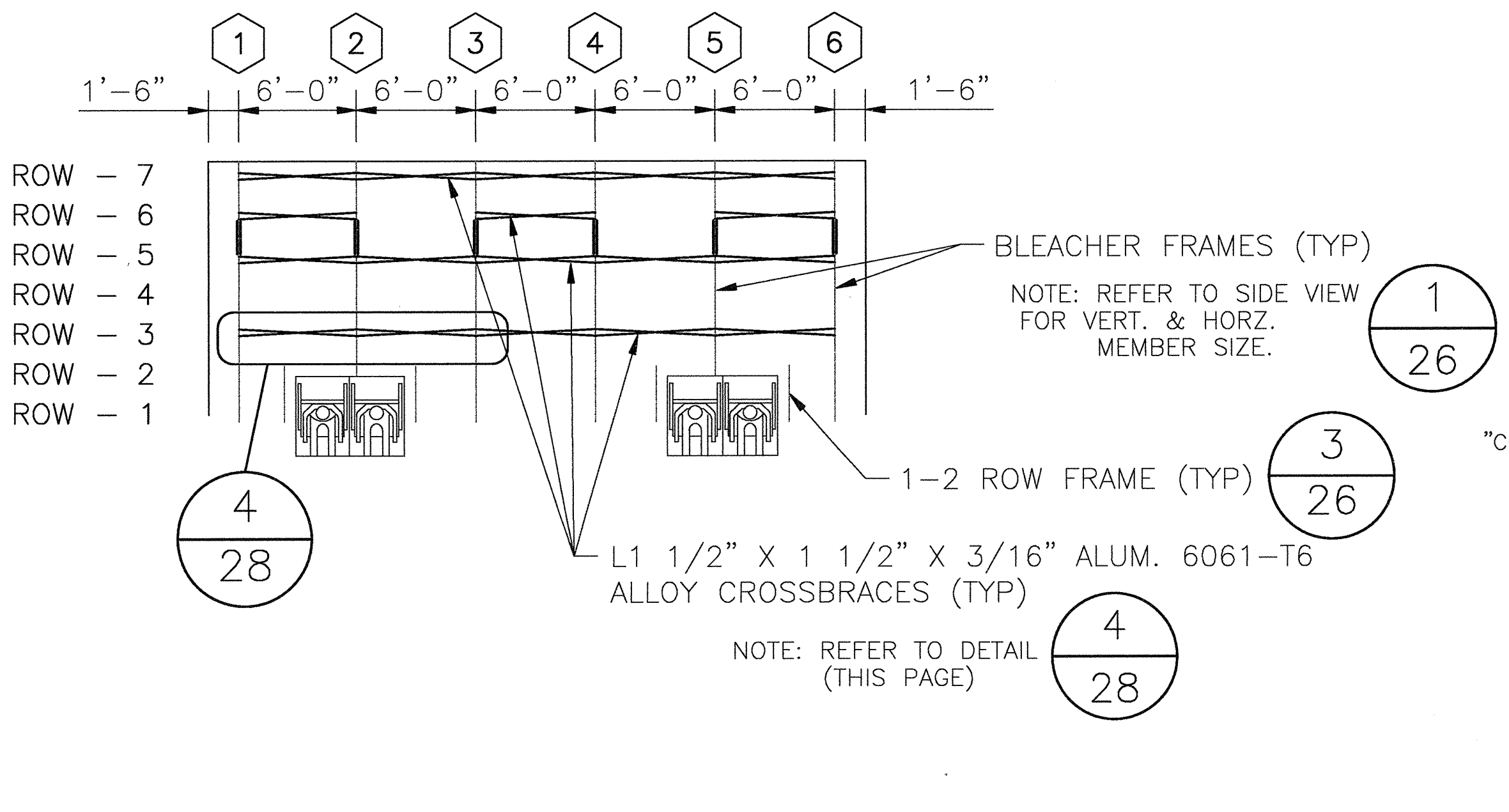
22" X 34" (11x17 = 1/2 indicated scale)



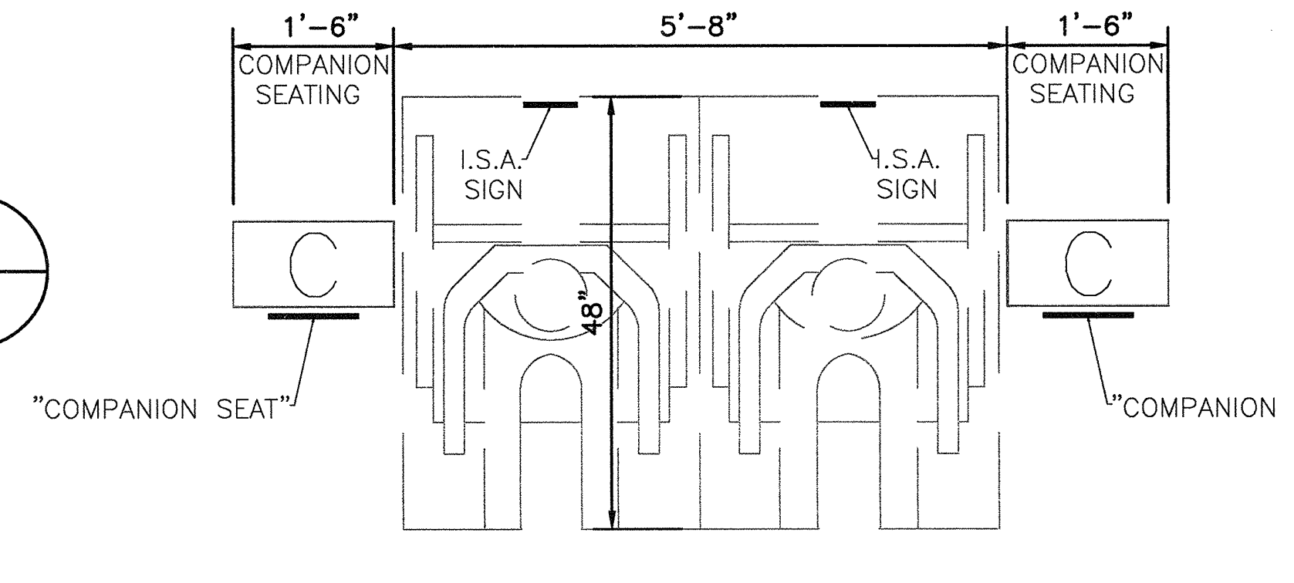
WARNING:
DO NOT LEAVE CHILDREN UNATTENDED ON BLEACHER. CHILDREN MIGHT FALL FROM BLEACHER HURTING THEMSELVES.

1/28 SEATING LAYOUT
SCALE:1/8"=1'-0"

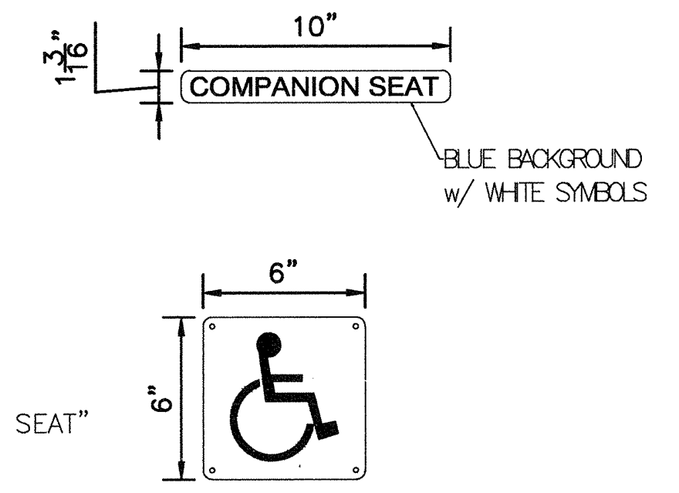
106 TOTAL NET 18" SEATS
4 TOTAL 18" COMPANION SEATS
4 TOTAL NET 33" WHEELCHAIR SPACES
114 TOTAL SEATING CAPACITY


1
2
3
4
5
6
1'-6"
6'-0"
6'-0"
6'-0"
6'-0"
6'-0"
1'-6"
ROW – 7
ROW – 6
ROW – 5
ROW – 4
ROW – 3
ROW – 2
ROW – 1
BLEACHER FRAMES (TYP)
NOTE: REFER TO SIDE VIEW FOR VERT. & HORZ. MEMBER SIZE.
1/26
1-2 ROW FRAME (TYP)
3/26
4/28
L1 1/2" X 1 1/2" X 3/16" ALUM. 6061-T6 ALLOY CROSSBRACES (TYP)
NOTE: REFER TO DETAIL (THIS PAGE)
4/28

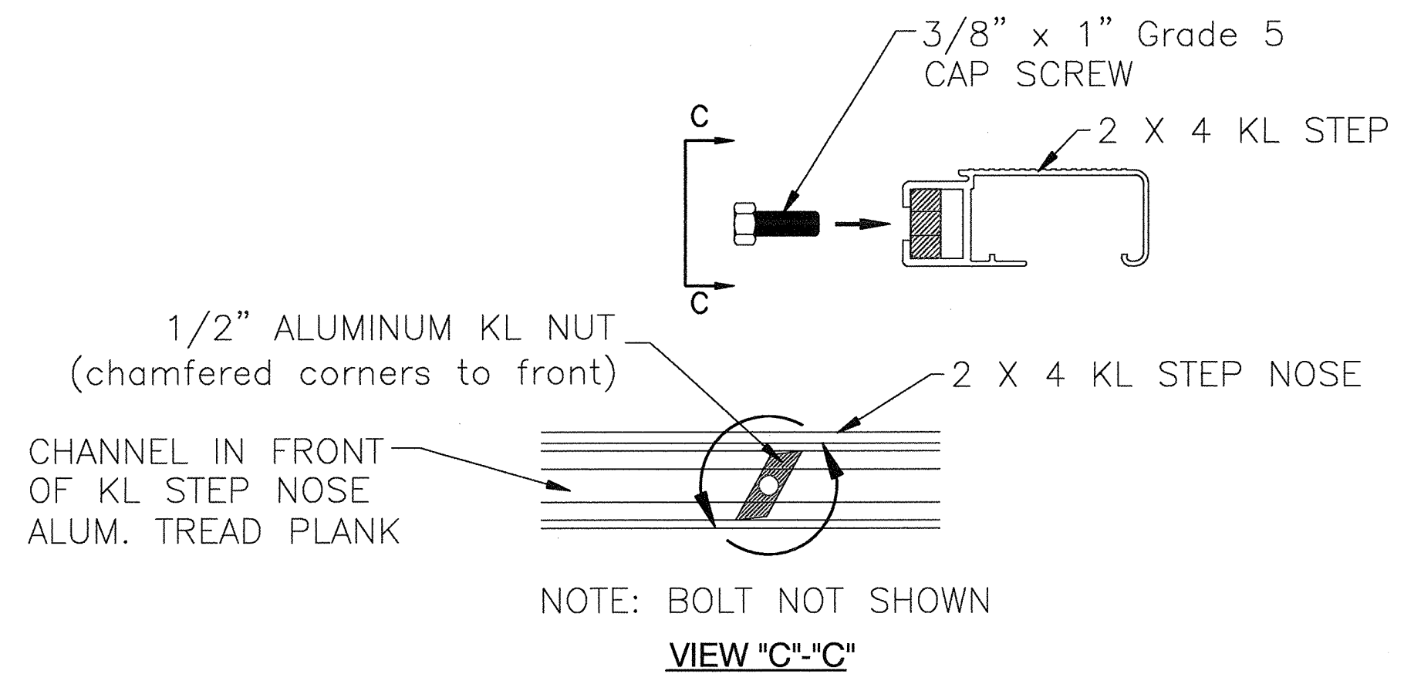
2/28 CROSSBRACE LAYOUT
SCALE:1/8"=1'-0"



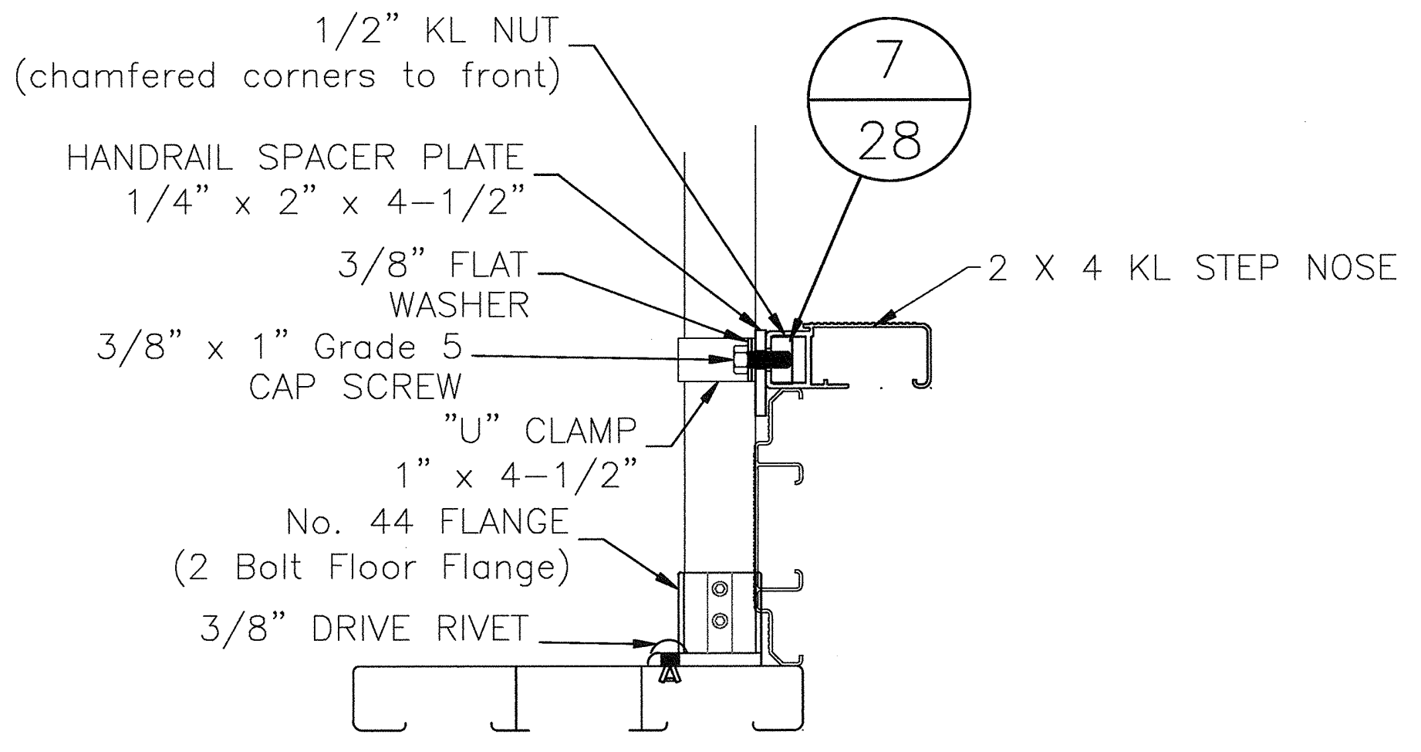
3/28 WHEELCAIR AREA DETAIL
NOT TO SCALE



SIGNAGE TYP. @ WHEELCHAIR AREAS (COMPANION: 1 3/16" X 10" PLASTIC) (ACCESSIBLE: 6" X 6" 0.040 ALUM.)


3/8" x 1" Grade 5 CAP SCREW
2 X 4 KL STEP NOSE
C
C
1/2" ALUMINUM KL NUT (chamfered corners to front)
2 X 4 KL STEP NOSE
CHANNEL IN FRONT OF KL STEP NOSE ALUM. TREAD PLANK
NOTE: BOLT NOT SHOWN
VIEW "C"-"C"

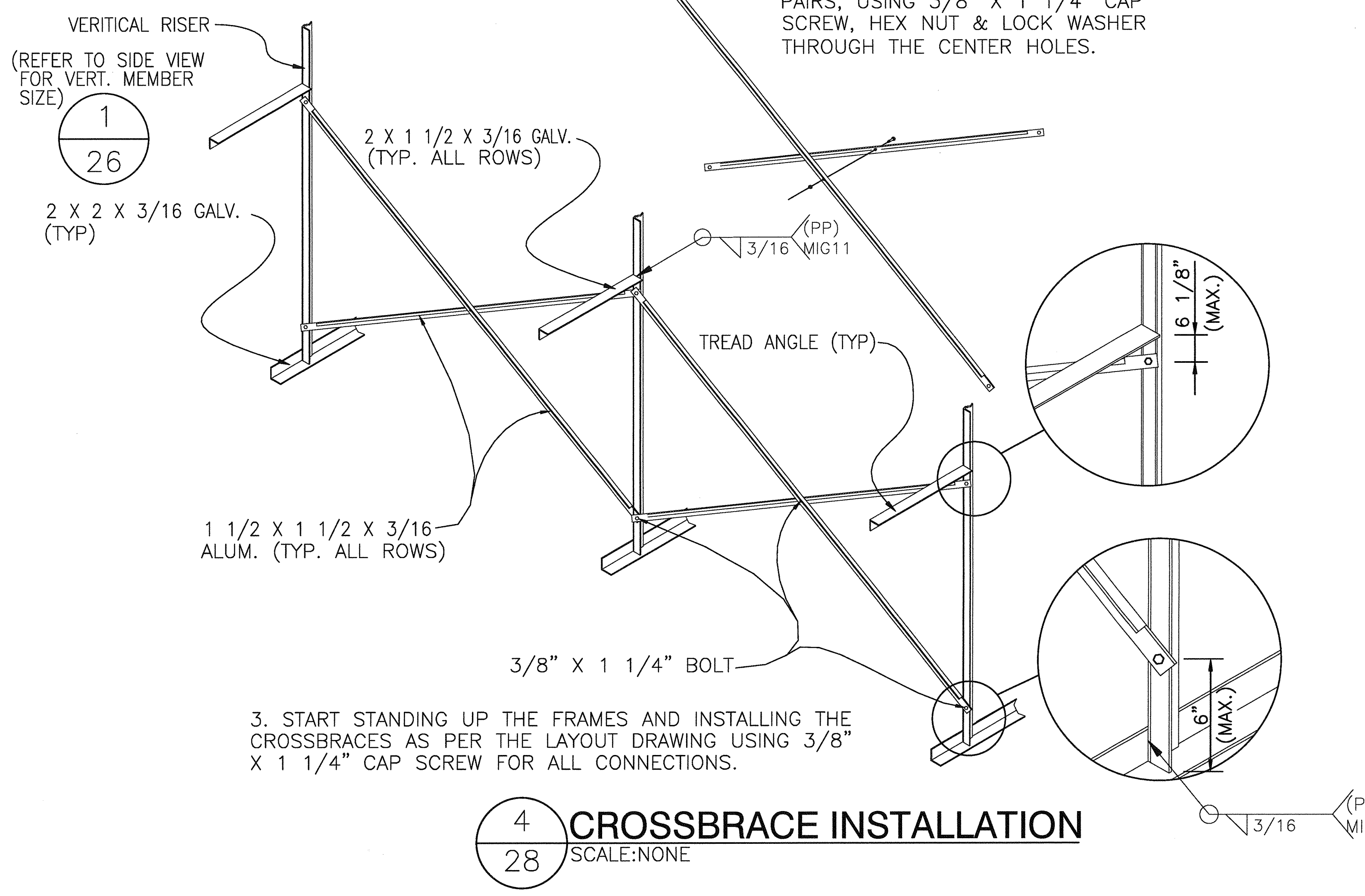
7/28 KL NUT DETAIL
N.T.S.


1/2" KL NUT (chamfered corners to front)
7/28
HANDRAIL SPACER PLATE 1/4" x 2" x 4-1/2"
3/8" FLAT WASHER
3/8" x 1" Grade 5 CAP SCREW
2 X 4 KL STEP NOSE
"U" CLAMP 1" x 4-1/2"
No. 44 FLANGE (2 Bolt Floor Flange)
3/8" DRIVE RIVET

6/28 CONN. DETAIL
NOT TO SCALE

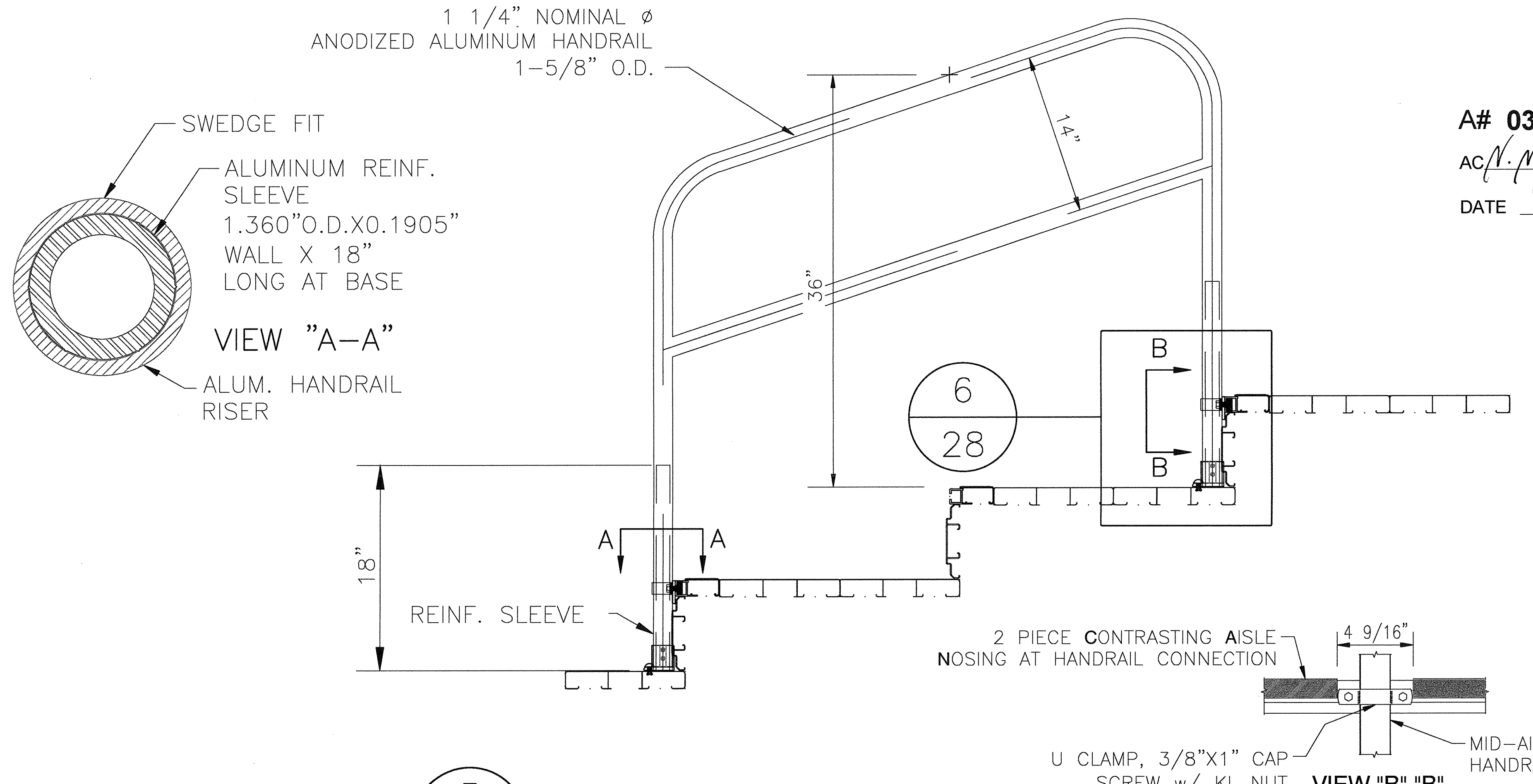
1.USING THE LAYOUT DRAWING SUPPLIED, LAY OUT THE FRAMES WITH THE FRONTS ALIGNED. THE FRAMES SHOULD BE ON LEVEL GROUND AND APPROXIMATELY 6 FT. APART.

2. BOLT ALL CROSSBRACE ANGLES OF EQUAL LENGTH TOGETHER IN PAIRS, USING 3/8" X 1 1/4" CAP SCREW, HEX NUT & LOCK WASHER THROUGH THE CENTER HOLES.



3. START STANDING UP THE FRAMES AND INSTALLING THE CROSSBRACES AS PER THE LAYOUT DRAWING USING 3/8" X 1 1/4" CAP SCREW FOR ALL CONNECTIONS.

4/28 CROSSBRACE INSTALLATION
SCALE:NONE


1 1/4" NOMINAL ø ANODIZED ALUMINUM HANDRAIL 1-5/8" O.D.
14"
36"
SWEDGE FIT
ALUMINUM REINF. SLEEVE 1.360"O.D.X0.1905" WALL X 18" LONG AT BASE
VIEW "A-A"
ALUM. HANDRAIL RISER
B
B
6/28
A
A
18"
REINF. SLEEVE
2 PIECE CONTRASTING AISLE NOSING AT HANDRAIL CONNECTION
4 9/16"
U CLAMP, 3/8"X1" CAP SCREW w/ KL NUT
VIEW "B"-"B"
MID-AISLE HANDRAIL

5/28 MID AISLE INST. DETAIL
N.T.S.

A# 03-117117
AC N.N. FLS Gb SS
DATE FEB 0 3 2017
FILE # 19-H10

BROOKS RANSOM ASSOCIATES
CIVIL ENGINEERS - STRUCTURAL ENGINEERS
7415 N. PALM AVENUE SUITE 100 • FRESNO, CALIFORNIA
PH: (559)449-8444 • FAX: (559)449-8404

DETAIL NUMBER
SHEET SHOWN ON
SHEET CUT FROM

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GRANDSTANDS ▪BLEACHERS ▪STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
GAYLORD R. RANSOM
NO.S2386
EXPIRES 3-31-18
STRUCTURAL
STATE OF CALIFORNIA

TYPE
SEATING/CROSSBRACE LAYOUT
8" RISE X 24" TREAD 7-ROW ANGLE FRAME BLEACHER

TITLE
EL MONTE UNION HS DISTRICT
EL MONTE HS – POOL
EL MONTE, CALIFORNIA

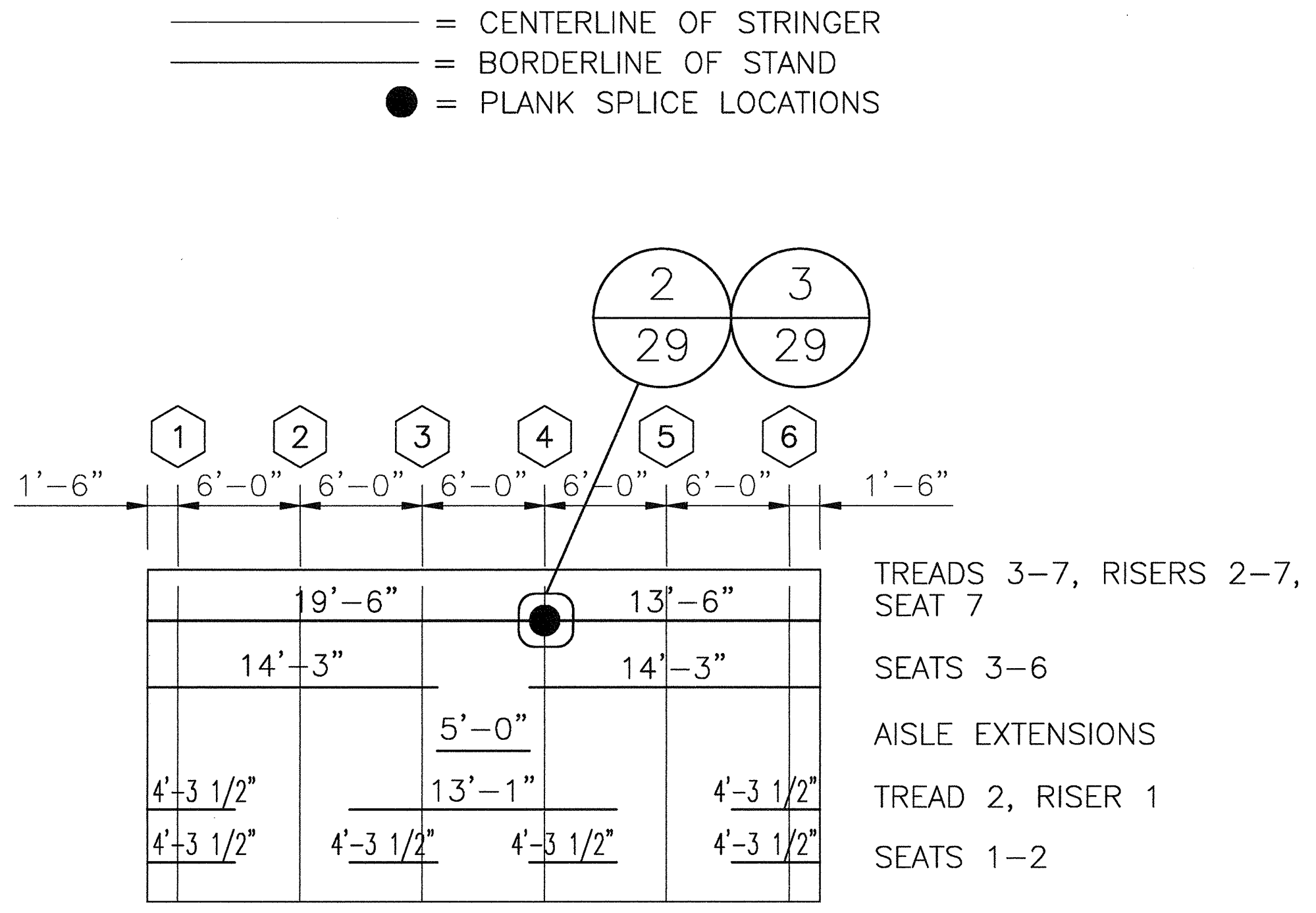
REV	BY	DATE	DESCRIPTION
5	BU	12/13/16	NONE
4	BU	10/14/16	DSA COMMENTS

DATE	DRAWN	CHECKED
3/23/15	BU	DMc

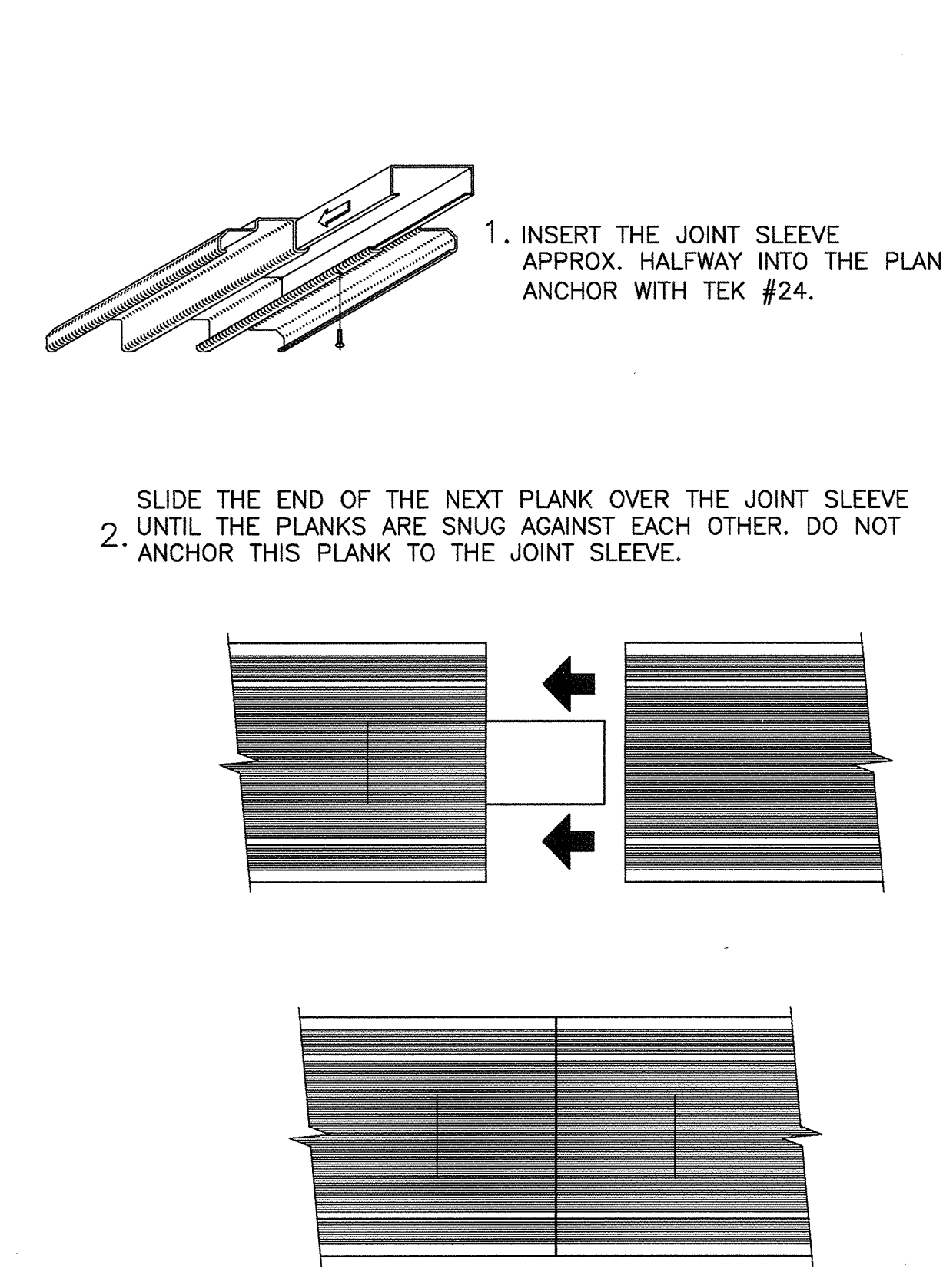
JOB NUMBER
14202

SHEET **B-28** OF **B-30**

22" X 34" (11x17 = 1/2 indicated scale)

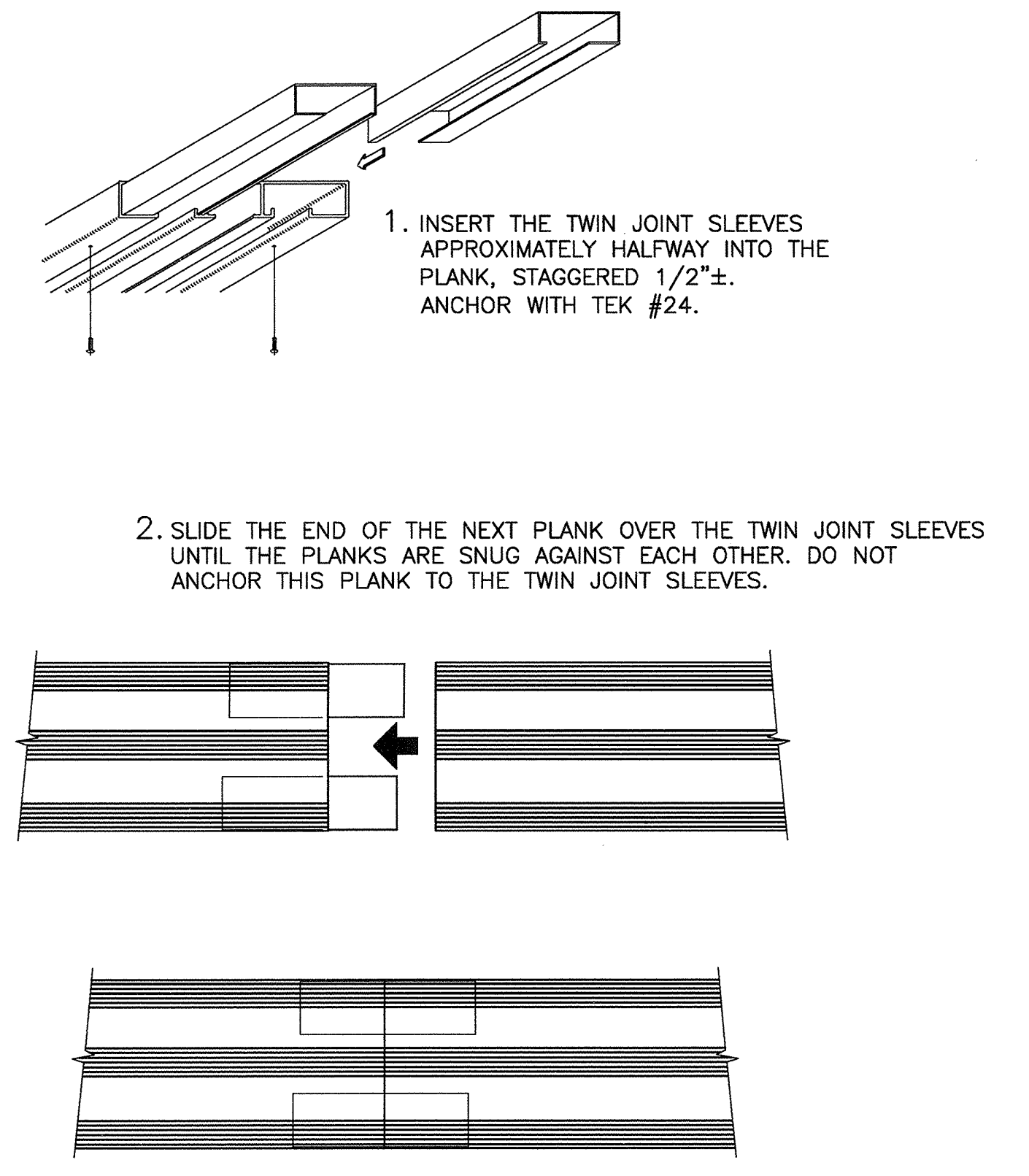


1/29 ALUM. PLANK LAYOUT
SCALE:1/8"=1'-0"



1. INSERT THE JOINT SLEEVE APPROX. HALFWAY INTO THE PLANK, ANCHOR WITH TEK #24.
2. SLIDE THE END OF THE NEXT PLANK OVER THE JOINT SLEEVE UNTIL THE PLANKS ARE SNUG AGAINST EACH OTHER. DO NOT ANCHOR THIS PLANK TO THE JOINT SLEEVE.

2/29 RISER JOINT SLEEVE INSTALLATION DETAIL
NOT TO SCALE



1. INSERT THE TWIN JOINT SLEEVES APPROXIMATELY HALFWAY INTO THE PLANK, STAGGERED 1/2"±. ANCHOR WITH TEK #24.
2. SLIDE THE END OF THE NEXT PLANK OVER THE TWIN JOINT SLEEVES UNTIL THE PLANKS ARE SNUG AGAINST EACH OTHER. DO NOT ANCHOR THIS PLANK TO THE TWIN JOINT SLEEVES.

3/29 JOINT SLEEVE DETAIL
SCALE: NONE

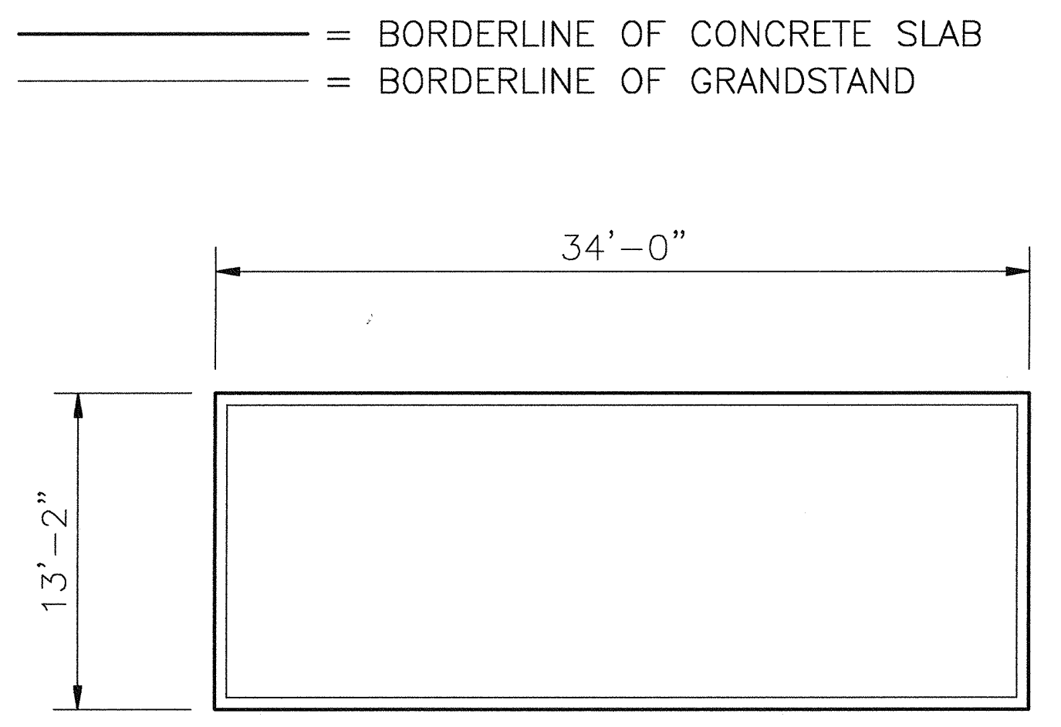
PLANK LEGEND

SEATS 1-7 = 1-2 X 10 ANODIZED ALUMINUM SEAT
TREADS 2-7 = 2-2 X 11 MILL ALUMINUM TREADS
RISERS 1-6 = 1-1 X 6 1/2 ANODIZED ALUMINUM FLAT RISER
RISER 7 = 2-1 X 6 1/2 ANODIZED ALUMINUM FLAT RISERS
AISLE EXTENSIONS = 1-2 X 4 MILL ALUMINUM KL STEP NOSE
AISLE EXTENSIONS = 1-2 X 4 MILL ALUMINUM KL STEP NOSE
W/C AREA RISER = 1-1 X 8 ANODIZED ALUMINUM FLAT RISER

ANGLE FRAME UNITS MUST BE ANCHORED TO RESIST WIND LOADS, AS PRESCRIBED BY BUILDING CODE.

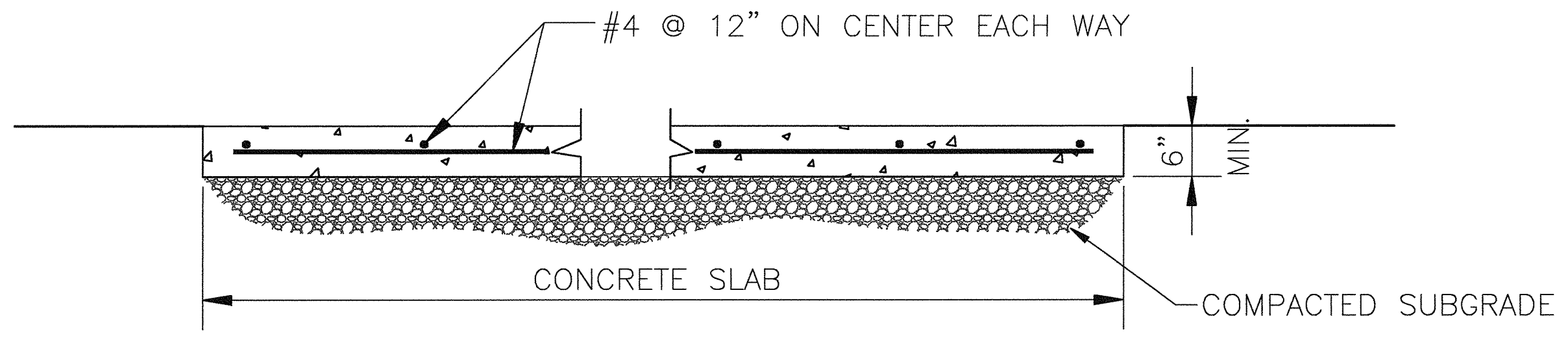
NOTE:
1. CONCRETE SLAB DIMENSIONS LISTED ARE MINIMUM REQUIREMENTS FOR ANGLE FRAME BLEACHER INSTALLATION.
2. CONCRETE SLAB ON GRADE TO BE LEVEL. BLEACHERS ARE DESIGNED FOR INSTALLATION ON UNIFORM, LEVEL SURFACE.
3. CONCRETE SLAB DESIGN/DETAIL SHOWN IS THE MINIMUM REQUIREMENT FOR ANGLE FRAME BLEACHER INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DESIGN AND LAYOUT.

A# 03-117117
AC N.N. FLS EB SS
DATE FEB 0 3 2017
FILE # 19-H10



NOTE: SLAB DIMENSIONS LISTED ARE FOR BLEACHER ONLY.
ADDITIONAL DEPTH FOR WHEELCHAIR ACCESS MUST BE MADE.

4/29 CONCRETE LAYOUT
SCALE:1/8"=1'-0"



5/29 CONCRETE SLAB DETAIL
SCALE:NONE

1/3|10 — DETAIL NUMBER
SHEET SHOWN ON
SHEET CUT FROM

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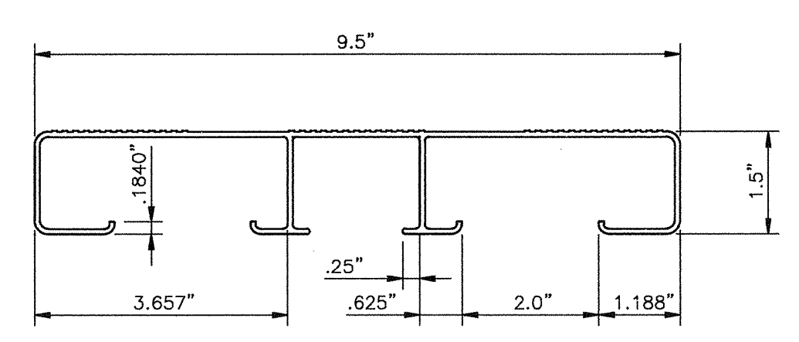
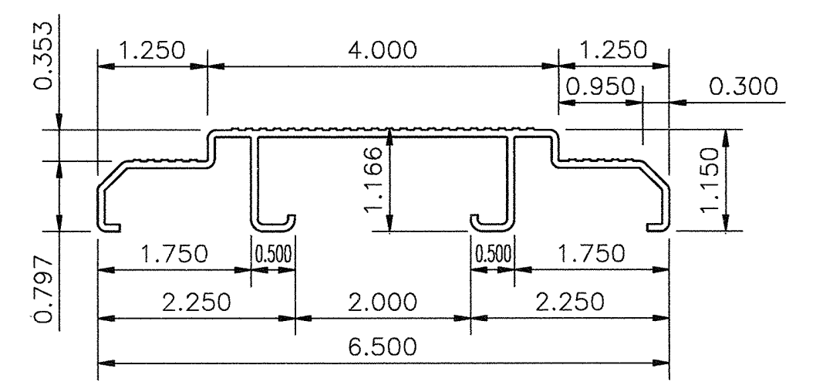
SHEET	OF
B-29	B-30

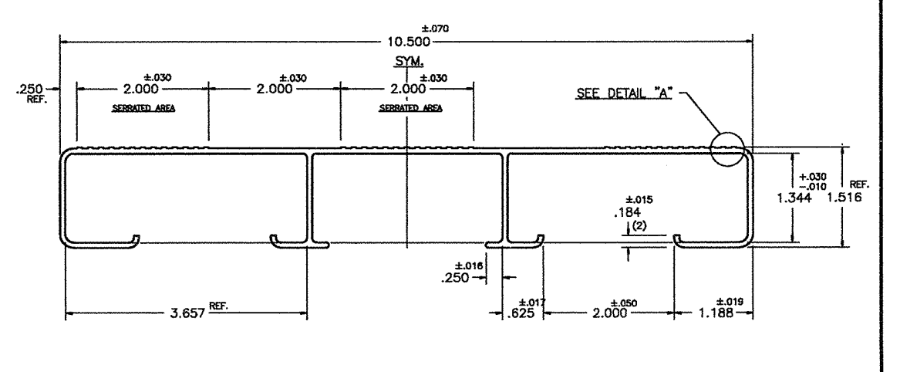
22" X 34" (11x17 = 1/2 indicated scale)

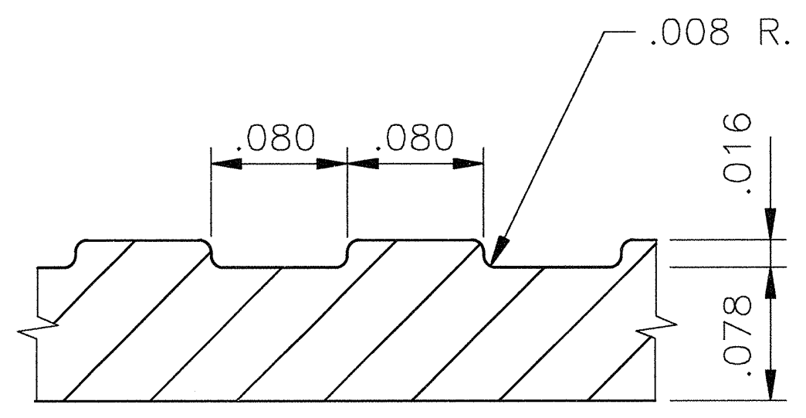


1/30 **2 X 10 ALUMINUM PLANK DETAIL**
NOT TO SCALE



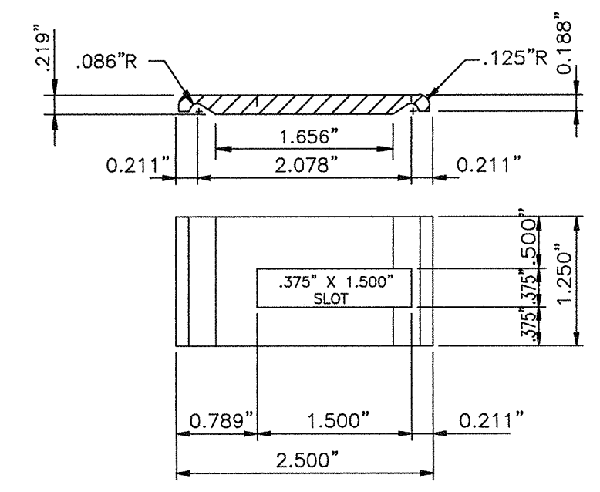
2/30 **1 X 6.5 ALUMINUM RISER PLANK DETAIL**
NOT TO SCALE



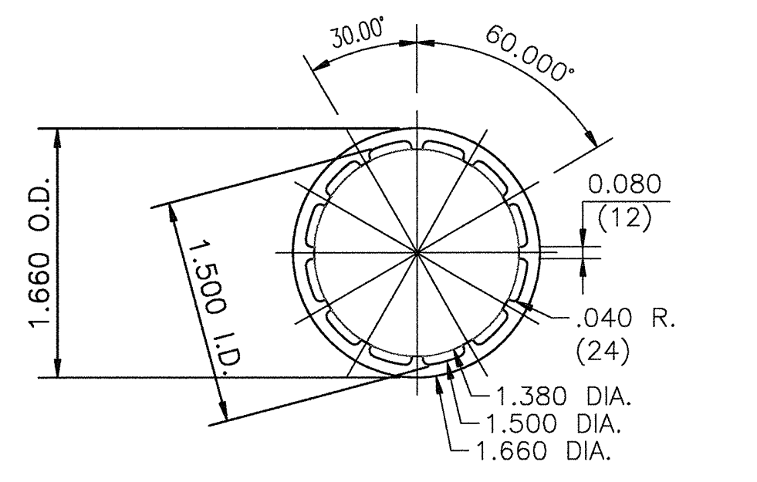


NOTE: TYPICAL FOR ALL PLANKS.

4/30 **FLUTED SURFACE DETAIL**
NOT TO SCALE

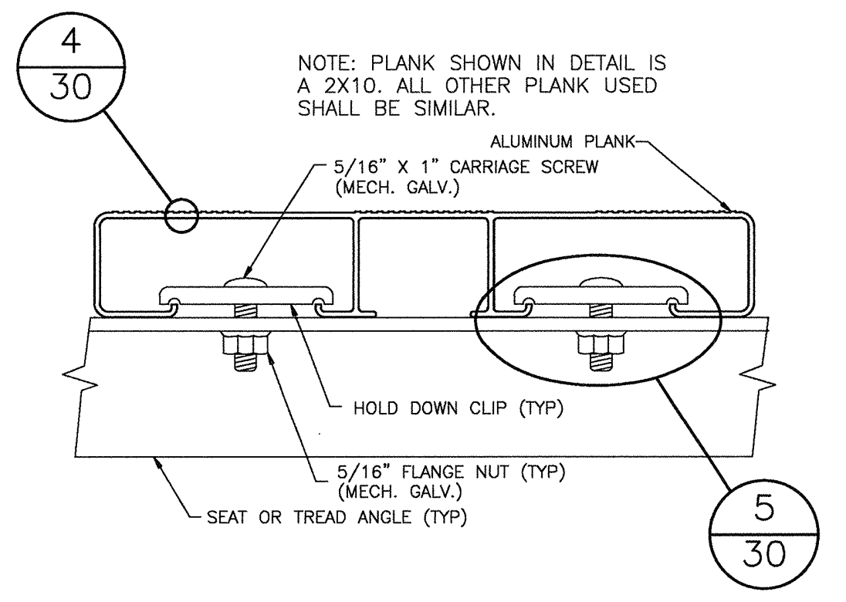


5/30 **HOLD DOWN CLIP DETAIL**
NOT TO SCALE



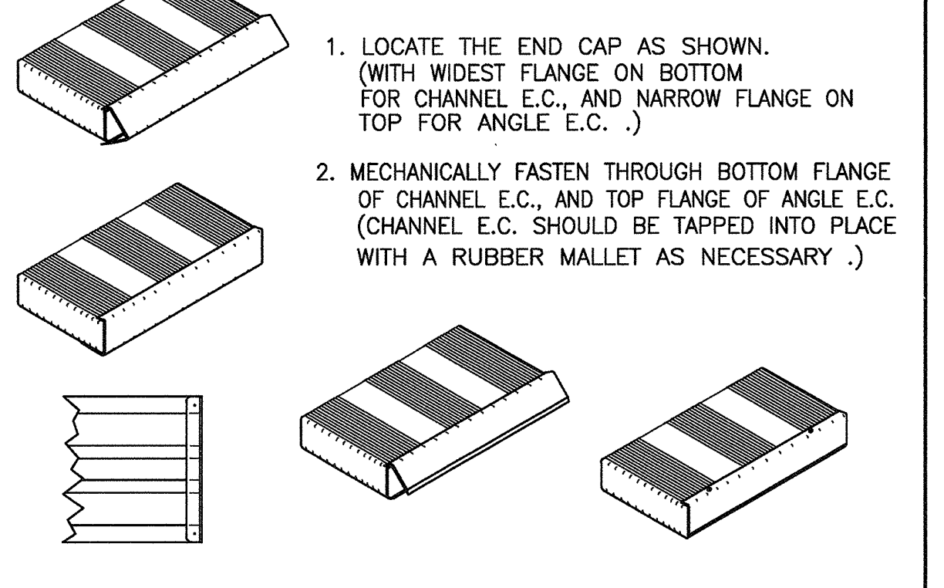
AREA .465 , .558#/FT.
MATERIAL – 6063 T-6

6/30 **1 5/8" O.D. ALUMINUM RAIL DETAIL**
NOT TO SCALE


4/30
ALUMINUM PLANK
5/16" X 1" CARRIAGE SCREW (MECH. GALV.)
HOLD DOWN CLIP (TYP)
5/16" FLANGE NUT (TYP) (MECH. GALV.)
SEAT OR TREAD ANGLE (TYP)
5/30

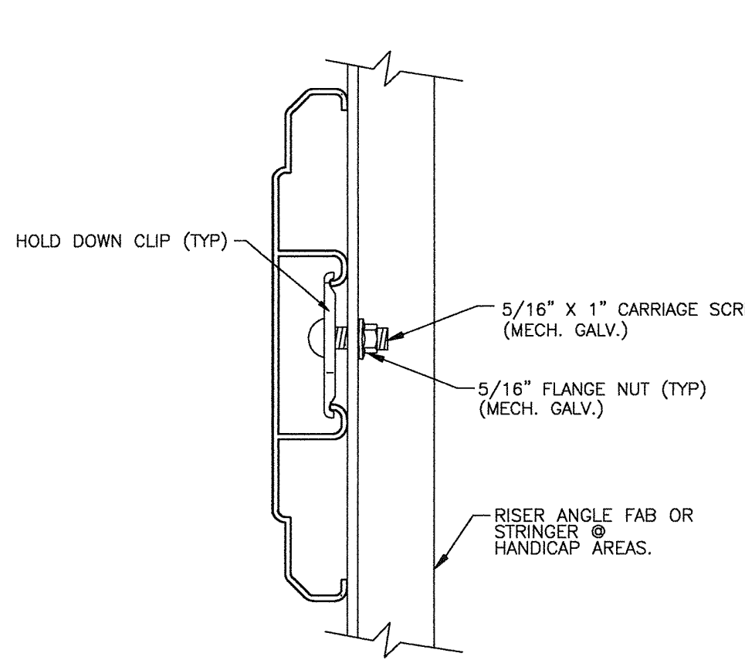
NOTE: PLANK SHOWN IN DETAIL IS A 2X10. ALL OTHER PLANK USED SHALL BE SIMILAR.

7/30 **PLANK INSTALLATION DETAIL**
NOT TO SCALE

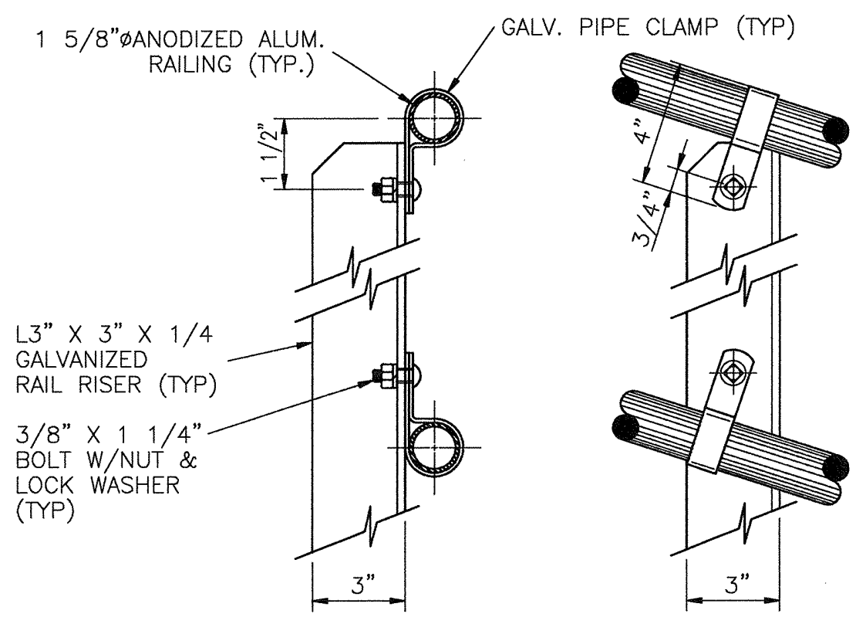


1. LOCATE THE END CAP AS SHOWN. (WITH WIDEST FLANGE ON BOTTOM FOR CHANNEL E.C., AND NARROW FLANGE ON TOP FOR ANGLE E.C. .)
2. MECHANICALLY FASTEN THROUGH BOTTOM FLANGE OF CHANNEL E.C., AND TOP FLANGE OF ANGLE E.C. (CHANNEL E.C. SHOULD BE TAPPED INTO PLACE WITH A RUBBER MALLET AS NECESSARY .)

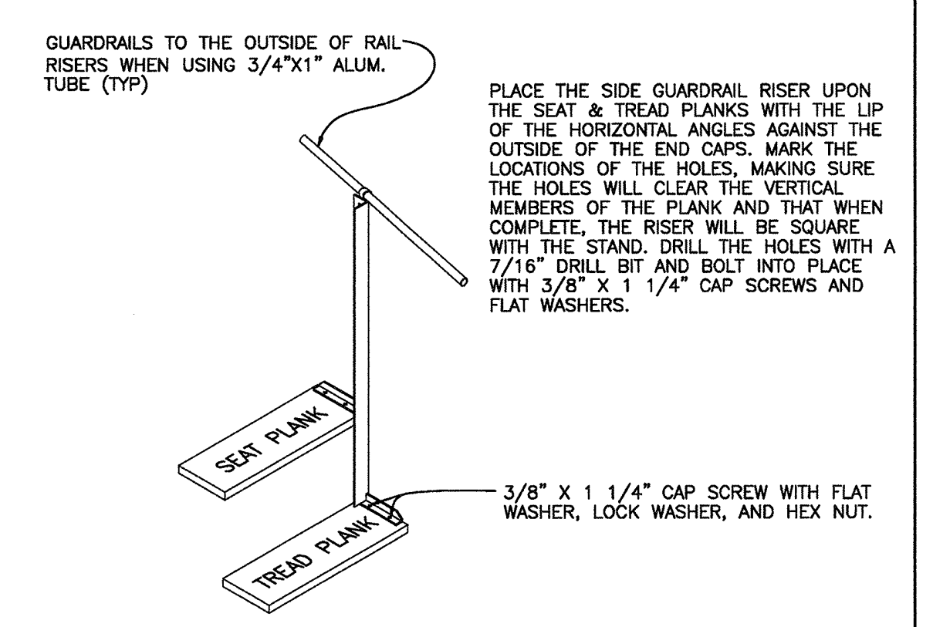
8/30 **ENDCAP INSTALLATION DETAIL**
NOT TO SCALE


HOLD DOWN CLIP (TYP)
5/16" X 1" CARRIAGE SCREW (MECH. GALV.)
5/16" FLANGE NUT (TYP) (MECH. GALV.)
RISER ANGLE FAB OR STRINGER @ HANDICAP AREAS.

9/30 **RISER PLANK INSTALLATION DETAIL**
NOT TO SCALE

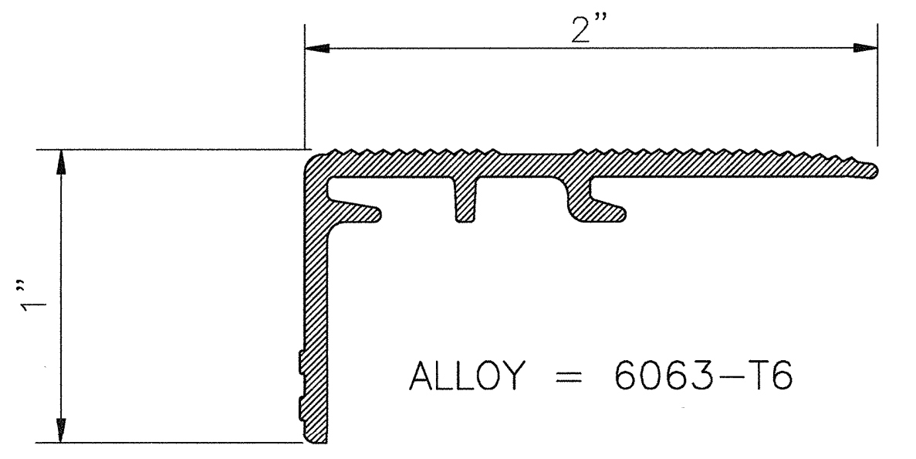

1 5/8"⌀ANODIZED ALUM. RAILING (TYP.)
GALV. PIPE CLAMP (TYP)
1 1/2"
4"
3/4"
L3" X 3" X 1/4 GALVANIZED RAIL RISER (TYP)
3/8" X 1 1/4" BOLT W/NUT & LOCK WASHER (TYP)
3"
3"

10/30 **RAILING TO RAIL RISER ATTACHMENT DETAIL**
NOT TO SCALE


GUARDRAILS TO THE OUTSIDE OF RAIL RISERS WHEN USING 3/4"X1" ALUM. TUBE (TYP)
SEAT PLANK
TREAD PLANK
3/8" X 1 1/4" CAP SCREW WITH FLAT WASHER, LOCK WASHER, AND HEX NUT.

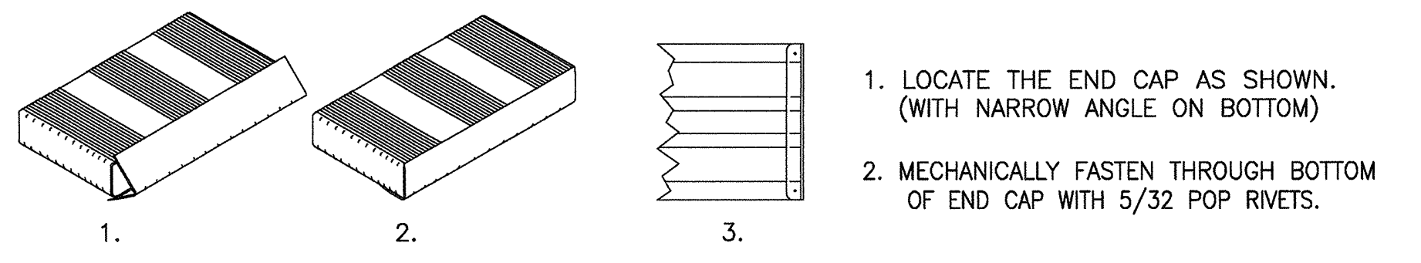
PLACE THE SIDE GUARDRAIL RISER UPON THE SEAT & TREAD PLANKS WITH THE LIP OF THE HORIZONTAL ANGLES AGAINST THE OUTSIDE OF THE END CAPS. MARK THE LOCATIONS OF THE HOLES, MAKING SURE THE HOLES WILL CLEAR THE VERTICAL MEMBERS OF THE PLANK AND THAT WHEN COMPLETE, THE RISER WILL BE SQUARE WITH THE STAND. DRILL THE HOLES WITH A 7/16" DRILL BIT AND BOLT INTO PLACE WITH 3/8" X 1 1/4" CAP SCREWS AND FLAT WASHERS.

11/30 **SIDE GUARDRAIL RISER INSTALLATION**
NOT TO SCALE



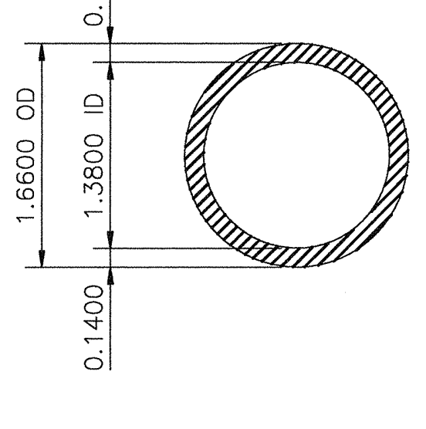
ALLOY = 6063–T6

15/30 **ALUMINUM AISLE NOSING**
NOT TO SCALE



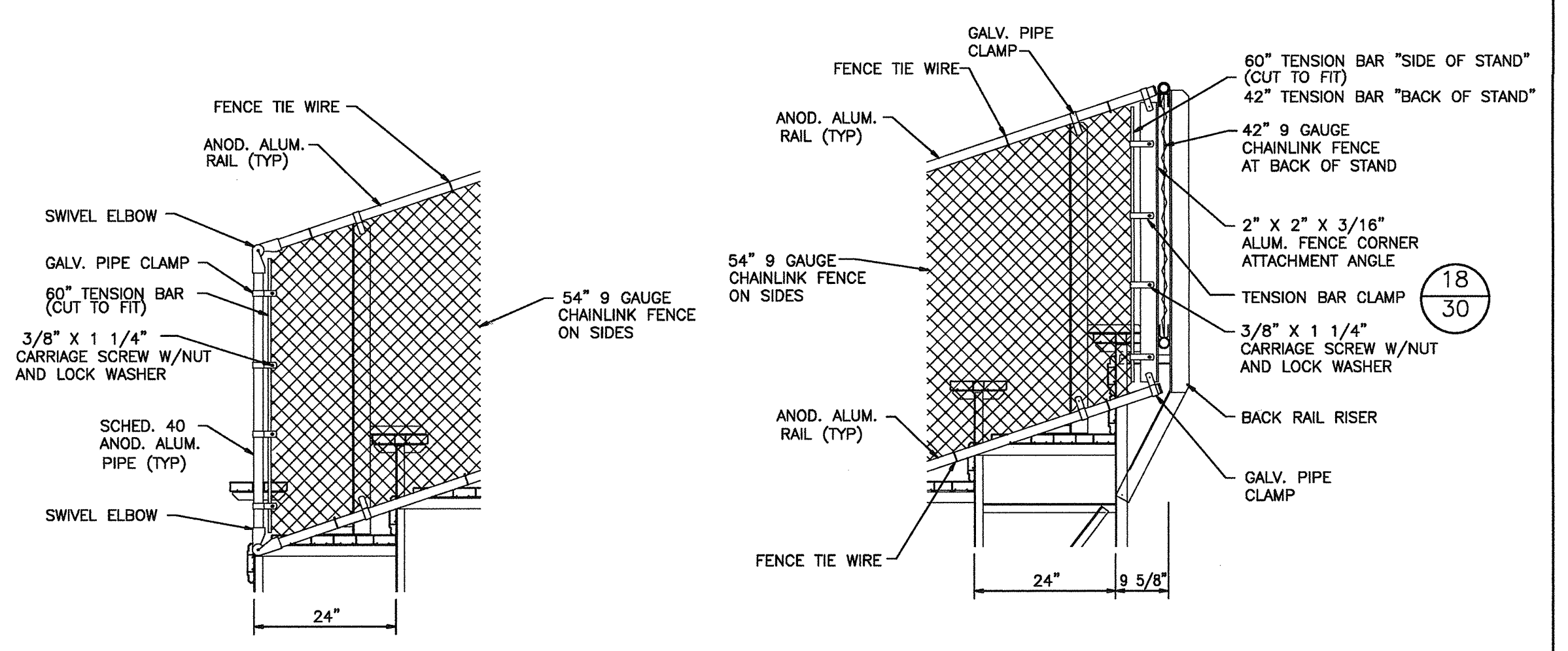
1. LOCATE THE END CAP AS SHOWN. (WITH NARROW ANGLE ON BOTTOM)
2. MECHANICALLY FASTEN THROUGH BOTTOM OF END CAP WITH 5/32 POP RIVETS.

12/30 **ANGLE END CAP INSTALLATION @ SIDE RAIL RISER**
NOT TO SCALE



1. MATERIAL – 6063 T-6

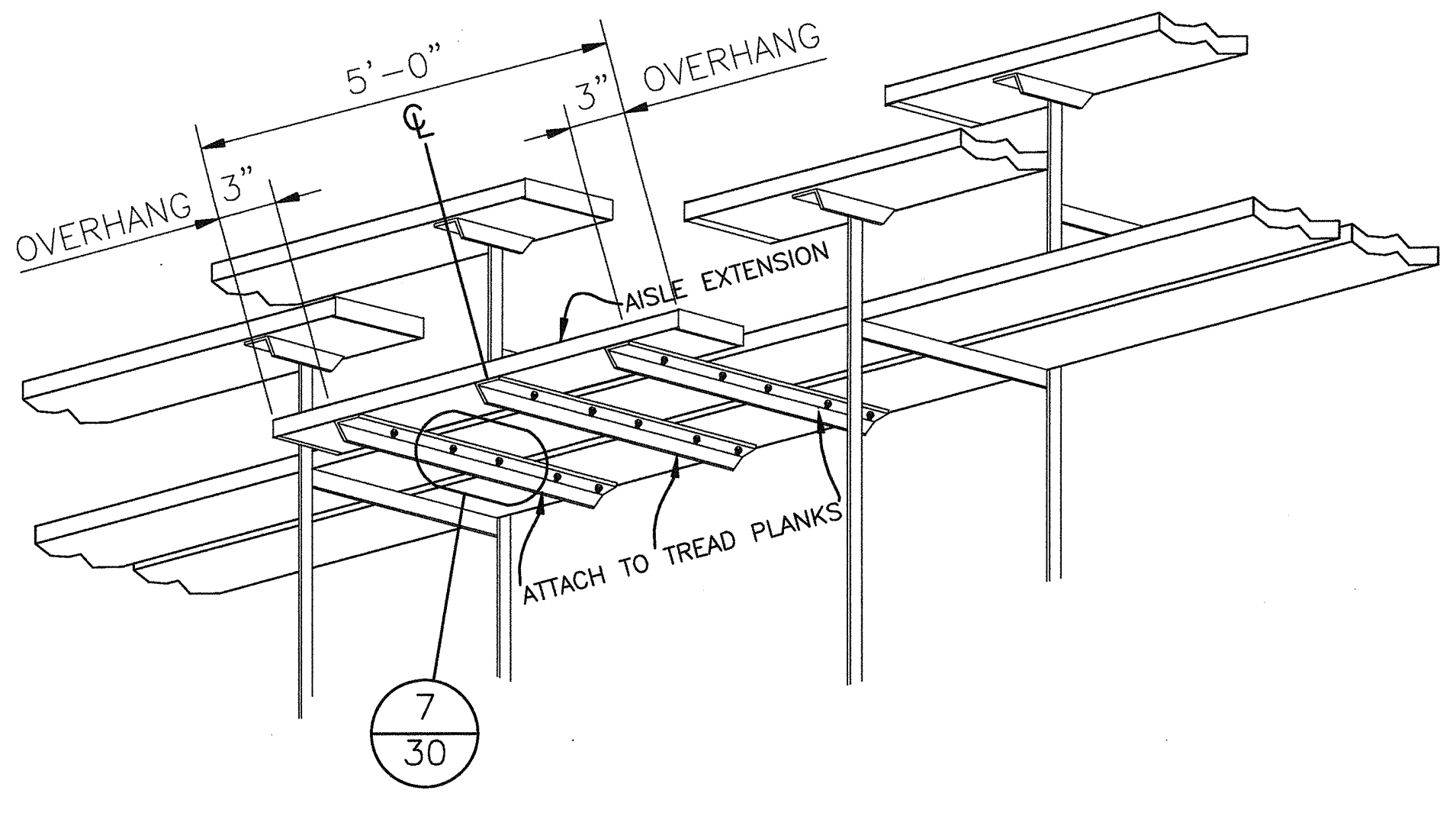
13/30 **SCHED. 40 ALUMINUM PIPE DETAIL**
NOT TO SCALE


FENCE TIE WIRE
ANOD. ALUM. RAIL (TYP)
SWIVEL ELBOW
GALV. PIPE CLAMP
60" TENSION BAR (CUT TO FIT)
3/8" X 1 1/4" CARRIAGE SCREW W/NUT AND LOCK WASHER
SCHED. 40 ANOD. ALUM. PIPE (TYP)
SWIVEL ELBOW
54" 9 GAUGE CHAINLINK FENCE ON SIDES
24"
GALV. PIPE CLAMP
FENCE TIE WIRE
ANOD. ALUM. RAIL (TYP)
54" 9 GAUGE CHAINLINK FENCE ON SIDES
ANOD. ALUM. RAIL (TYP)
FENCE TIE WIRE
60" TENSION BAR "SIDE OF STAND" (CUT TO FIT)
42" TENSION BAR "BACK OF STAND"
42" 9 GAUGE CHAINLINK FENCE AT BACK OF STAND
2" X 2" X 3/16" ALUM. FENCE CORNER ATTACHMENT ANGLE
TENSION BAR CLAMP
18/30
3/8" X 1 1/4" CARRIAGE SCREW W/NUT AND LOCK WASHER
BACK RAIL RISER
GALV. PIPE CLAMP
24"
9 5/8"

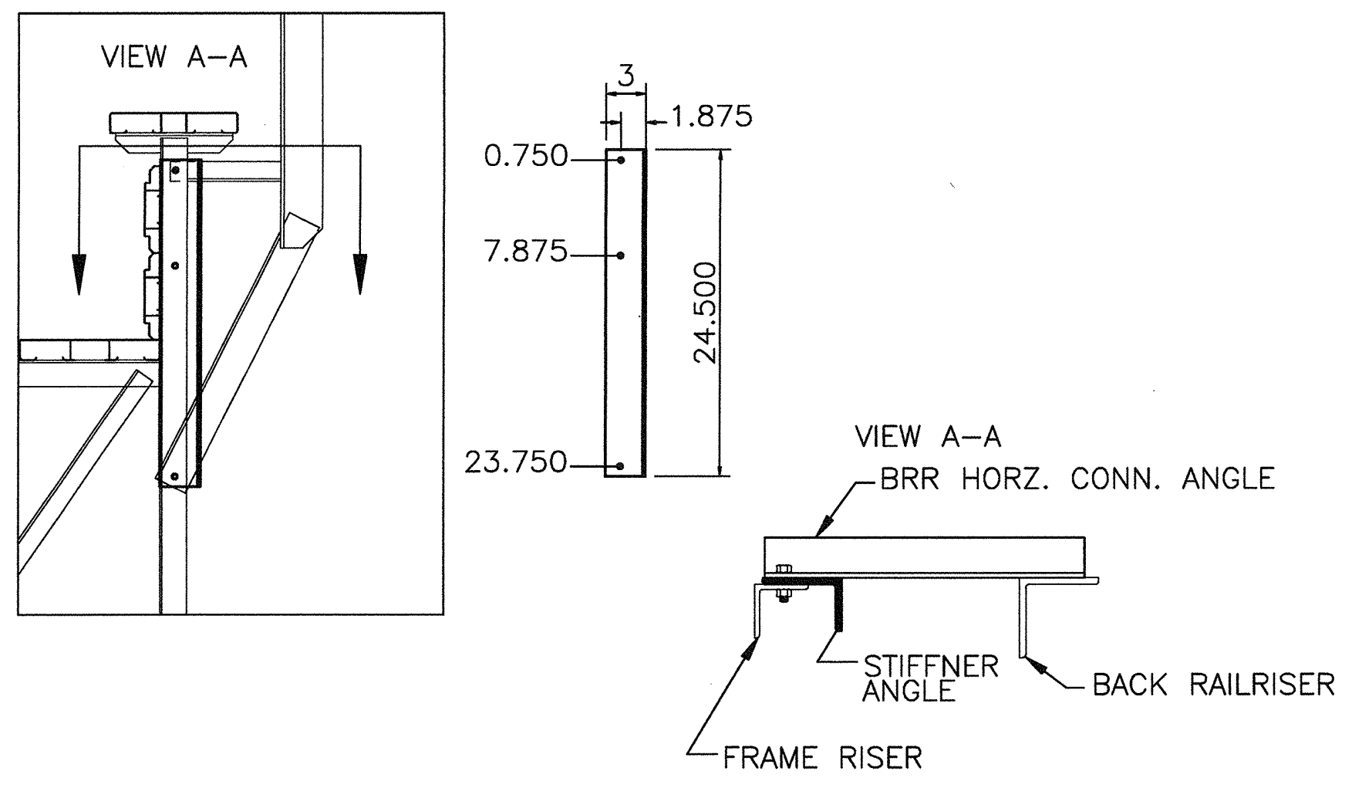
14/30 **FENCE INSTALLATION**
NOT TO SCALE

A# **03-117117**
AC N.N. FLS 65 SS
DATE FEB 0 3 2017
FILE # 19-H10

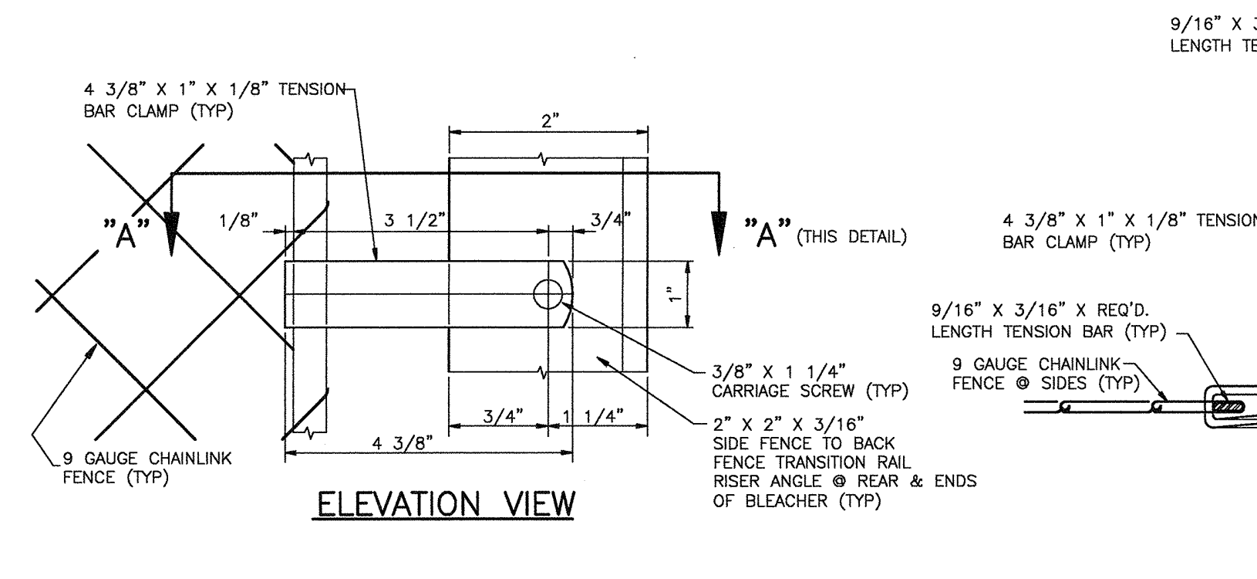
1. ATTACH 1 1/2" X 1 1/2" X 3/16" AISLE EXTENSION ANGLE BRACES TO THE TREAD PLANKS WITH 5/16" X 1" CARRIAGE BOLTS AND HOLD–DOWN CLIPS.
2. CENTER AISLE EXTENSION PLANK ON THE ANGLES AND ATTACH WITH 5/16" BOLTS AND CLIPS AS ABOVE. THERE SHOULD BE ABOUT A **3" OVERHANG** ON EACH SIDE OF THE AISLE EXTENSION ANGLES.



16/30 **AISLE EXTENSION INSTALLATION**
NOT TO SCALE



17/30 **STIFFNER ANGLE DETAIL**
SCALE: NONE


4 3/8" X 1" X 1/8" TENSION BAR CLAMP (TYP)
2"
"A"
1/8"
3 1/2"
3/4"
"A" (THIS DETAIL)
1"
3/8" X 1 1/4" CARRIAGE SCREW (TYP)
2" X 2" X 3/16" SIDE FENCE TO BACK FENCE TRANSITION RAIL RISER ANGLE @ REAR & ENDS OF BLEACHER (TYP)
3/4"
1 1/4"
4 3/8"
9 GAUGE CHAINLINK FENCE (TYP)
ELEVATION VIEW
9/16" X 3/16" X REQ'D. LENGTH TENSION BAR (TYP)
9 GAUGE CHAINLINK FENCE @ BACK (TYP)
4 3/8" X 1" X 1/8" TENSION BAR CLAMP (TYP)
SIDE FENCE TO BACK FENCE TRANSITION RAIL RISER ANGLE @ REAR & ENDS OF BLEACHER
9/16" X 3/16" X REQ'D. LENGTH TENSION BAR (TYP)
9 GAUGE CHAINLINK FENCE @ SIDES (TYP)
3/8" X 1 1/4" CARRIAGE SCREW (TYP)
1/8"
5/8"
POSITION AFTER TIGHTENING BOLT.
POSITION BEFORE TIGHTENING BOLT.
SECTION "A–A"

18/30 **TENSION BAR CLAMP INSTALLATION DETAIL**
SCALE: NONE

DETAIL NUMBER
SHEET SHOWN ON
SHEET CUT FROM

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EXPIRES 3-31-18

TYPE
ANGLE FRAME/ALUM. PLANK DETAILS
8" RISE X 24" TREAD 7–ROW ANGLE FRAME BLEACHER

TITLE
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EL MONTE HS – POOL
EL MONTE, CALIFORNIA

REV	BY	DATE	DESCRIPTION
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4	BU	10/14/16	DSA COMMENTS

DATE	DRAWN	CHECKED
3/23/15	BU	DMc

JOB NUMBER
14202

SHEET **B-30** OF **B-30**

22" X 34" (11x17 = 1/2 indicated scale)

MANUFACTURED RELOCATABLE MODULAR BUILDINGS

EL MONTE USD

8'-6" x 15'-6" TICKET BOOTH

SCI PROJECT NO. 10644

BUILDING DATA

NUMBER OF STORIES:	1 - STORY
OCCUPANCY:	E: 8'-6" x 15'-6", 21'-6", 30'-0" BLDG
TYPE OF CONSTRUCTION:	VB
FLOOR LIVE LOAD:	50 PSF
ROOF LIVE LOAD:	20 PSF
FLOOR DEAD LOAD:	WOOD FLOOR - 8 PSF
ROOF DEAD LOAD:	17 PSF (INCLUDING SPRINKLER LOAD)
RAMP LIVE LOAD:	100 PSF
BUILDING AREA: **ALLOWABLE AREA: 9000SF**	8'-6" x 15'-6" = 131.75 sq/ft
FOUNDATION:	CONCRETE
CEC CLIMATE ZONES:	1- 16
FLOOD AREA: NO	

SOIL BEARING PRESSURE	WOOD FOUNDATION	CONCRETE FOUNDATION
	1,000 PSF	1,500 PSF

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2013 EDITION
NFPA 72	NAT. FIRE ALARM CODE (CALIF. AMENDED)	2013 EDITION

(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

BUILDING CODES AND STANDARDS

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.

2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.

2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

2007 ASME A17.1 (w/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2013 CBC 705.3
3. THIS BUILDING IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. THIS BUILDING IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS BUILDING IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2013 CBC.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1406.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION

WIND DESIGN DATA SECTION 1603.A.1.4

1. BASIC WIND SPEED, 3 SEC GUST (MPH) :			100 / Kzt = 1.0
2. WIND IMPORTANCE FACTOR :			1
3. WIND EXPOSURE :			"C"
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT :			± 0.18
5. COMPONENTS AND CLADDING :			
ZONE 1 =	21.8	ZONE 4 =	21.6
ZONE 2 =	36.6	ZONE 5 =	26.6
ZONE 3 =	55.1		

EARTHQUAKE DESIGN DATA SECTION 1603.A.1.5

1. SEISMIC IMPORTANCE FACTOR :		1
2. MAPPED SPECTRAL RESPONSE :		
S_S = 1.898 (FOR BASE SHEAR)	S_1 = 0.823	

NOTE:
SEE PAGE 5 OF GEOTECH REPORT BY TERRA GEOSCIENCES. REPORT # 241886-3 DATED 02/17/2015

3. SITE CLASS		D
4. SPECTRAL RESPONSE COEFFICIENTS :		
S_{DS} = 1.226	S_{D1} = 0.820	
5. SEISMIC DESIGN CATEGORY :		E
6. BASIC SEISMIC-FORCE-RESISTING-SYSTEM :		OMF

7. DESIGN BASE SHEAR (kips) :

BLDG SIZE	PLY FLOOR	LL<100	
8'-6" x 15'-6"	X	X	
8'-6" x 21'-6"	X	X	
8'-6" x 30'-0"	X	X	

8. SEISMIC RESPONSE COEFFICIENT, Cs :	0.371
9. RESPONSE MODIFICATION FACTOR, R :	3.5
10. ANALYSIS PROCEDURE USED :	EQUIVALENT LATERAL FORCE

SHT NO.	ARCHITECTURAL
A-0 - T	COVER SHEET, SHEET INDEX, & BUILDING DATA
A-0.1 - T	SYMBOLS, LEGEND, ABBREVIATIONS & ADA SIGNAGE
A-0.2 - T	SCHEDULES
A-0.3 - T	TITLE 24 CALC'S
A-1.01 - T	FLOOR PLANS
A-2.01 - T	REFLECTED CEILING PLAN
A-2.21 - T	HARD LID CEILING DETAILS
A-3.01 - T	ROOF PLANS
A-3.90 - T	ROOFING DETAILS (TPO ROOF)
A-4.02 - T	EXTERIOR ELEVATIONS (STUCCO FINISH)
A-5.01 - T	CROSS SECTION
A-5.50 - T	TYPICAL DETAILS WOOD SIDING (WOOD STUDS)
A-5.51 - T	TYPICAL DETAILS STUCCO EXTERIOR (WOOD STUDS)
A-5.70 - T	ARCHITECTURAL DETAILS (FLOOR)
A-6.01 - T	INTERIOR ELEVATIONS
	FOUNDATION
F-2.01 - T	FOUNDATION PLANS (BELOW GRADE)
F-2.50 - T	FOUNDATIN DETAILS (BELOW GRADE)
F-2.51 - T	FOUNDATIN DETAILS (CONCRETE)
	STRUCTURAL
S-0.1 - T	SPECIFICATIONS & GENERAL NOTES
S-1.01 - T	FLOOR FRAMING PLANS
S-1.50 - T	FLOOR FRAMING DETAILS
S-2.01 - T	ROOF FRAMING PLANS
S-2.50 - T	ROOF FRAMING DETAILS - MONO SLOPE
S-3.03 - T	BUILDING SECTIONS
S-5.00 - T	WALL FRAMING ELEVATIONS
S-5.10 - T	WALL FRAMING DETAILS
S-5.11 - T	WALL FRAMING DETAILS
	ELECTRICAL
E-1.01 - T	ELECTRICAL PLAN AND SCHEDULES (8'-6" x 15'-6")

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SILVER CREEK INDUSTRIES, INC.

"BUILDING FOR THE NEXT GENERATION"

SILVER
CREEK

2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

COVER SHEET, SHEET INDEX & BUILDING DATA

C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N/A FLS [illegible] SS
Date FEB 0 3 2017

REVISIONS

1
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PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER

A-0-T

REFLECTED CEILING NOTES

METAL SUSPENSION FOR LAY-IN PANEL CEILING:

A. 12GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO THE INCLUDING 4'-0" X 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.

B. PROVIDE 12GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN & CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.

C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT THE CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYS. RUNNERS, THE MAIN AND CROSS RUNNERS SHOULD BE FREE & A MIN. OF 3/4" CLEAR OF WALL.

E. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQ'D.

F. PROVIDE BRACING ASSEMBLY CONSISTING OF A COMPRESSION STRUT (COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB) AND (4) 12GA. SPLAYED WIRES ORIENTED 90° FROM EA. OTHER AT THE FOLLOWING SPACING.
(A). PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12'-0" X 12"-0" ON CENTER.
(B). PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EA. PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.

G. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

H. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. SEE FIGURE 3A, DETAIL F OF DSA IR 25-2.10. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.

I. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
ATTACH ALL LIGHT FIXTURES CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580 SECTION 5.3.1.
RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

J. ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
ALL 4 ft. x 4 ft. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 ft. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER FIGURE 1, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E. AIRCRAFT CABLES TO WALLS, THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. SEE IR 16-9 FOR ADDITIONAL REQUIREMENT FOR PENDENT MOUNTED FIXTURES.
ALL LIGHT-WEIGHT MISCELLANEOUS DEVISES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.1 OF DSA IR 25-2.10. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHTING MORE THEN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3 OF DSA IR 25-2.10.
PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580 SECTION 5.2.8.8, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER.

K. CLASSIFICATION OF CEILING GRID:
CLASSIFICATION OF CEILING GRID SHALL BE "HEAVY DUTY"
MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328
2" WALL ANGLE: 7810
ARMSTRONG PER ASTM C635 AND C636.
PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

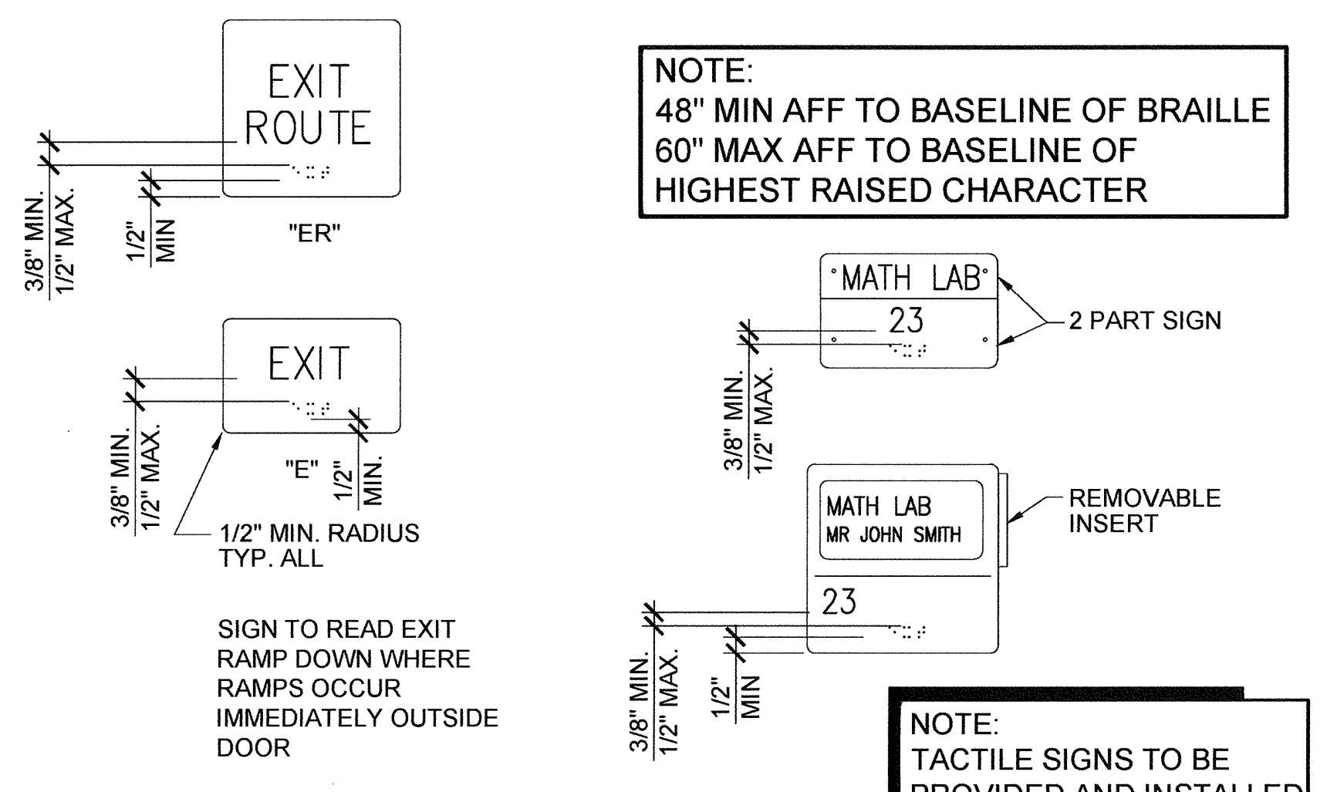
L. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH DSA IR 25-2.10 SECTION 8, FIGURE 7, DETAIL A TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, COMPLY WITH ASTM E580-08 SECTION 5.2.9. - SEE 20/A-2.20

2. NOTE FOR FIRE BLK CONSTRUCTION: SECTION 718

PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

3. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES

4. HANGER WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES



NOTE:
48" MIN AFF TO BASELINE OF BRAILLE
60" MAX AFF TO BASELINE OF HIGHEST RAISED CHARACTER

SIGN TO READ EXIT RAMP DOWN WHERE RAMPS OCCUR IMMEDIATELY OUTSIDE DOOR

NOTE:
TACTILE SIGNS TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT SCI. AND SHALL COMPLY W/ CBC 1011.4

SIGNAGE TEMPLATES

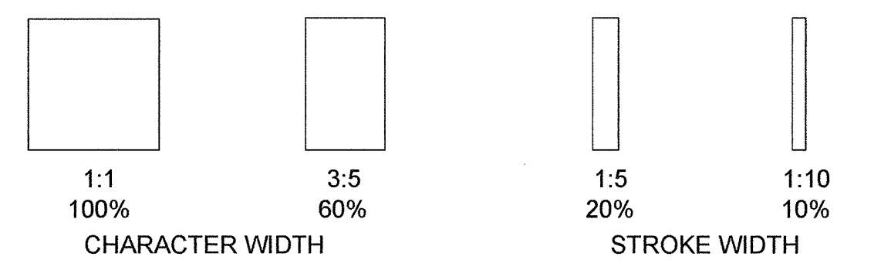
COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

TACTILE EXIT SIGNS

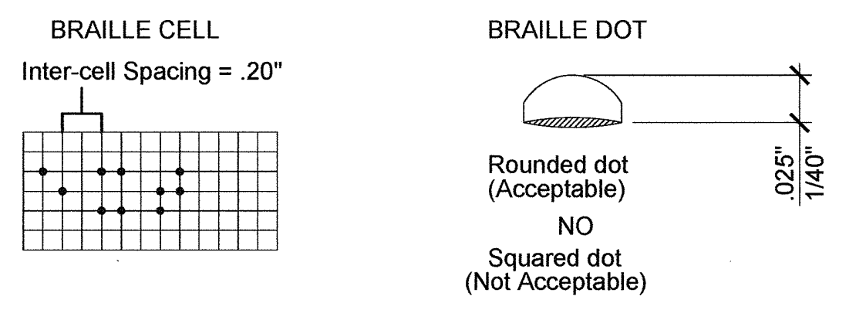
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE (SEE NOTE 5 BELOW).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1 / 11B-703.6.2 / 11B-703.7.1
4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 11B-703.2.4 / 11B-703.2.6

   ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X, AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE I:10 RECTANGLE TO SEE IF ITS IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

   TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

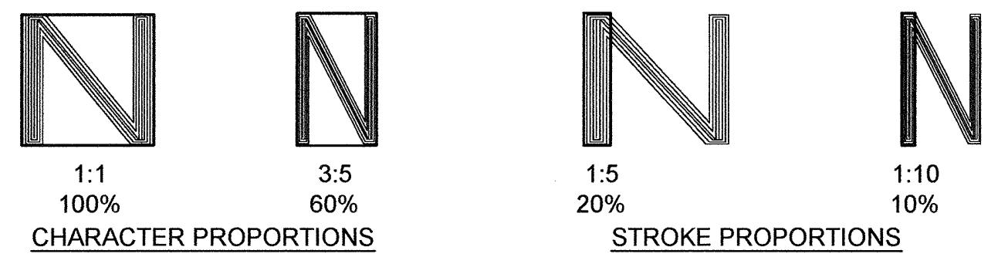


5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. 11B-703.3 / 11B-703.3.1.

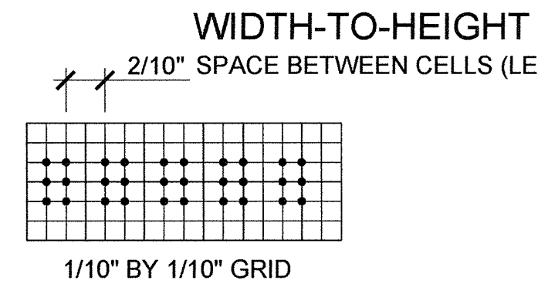


REQUIRED ROUNDED OR DOMED CALIFORNIA BRAILLED DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

EXAMPLE OF HOW TO DEMONSTRATE FONT TO BE USED

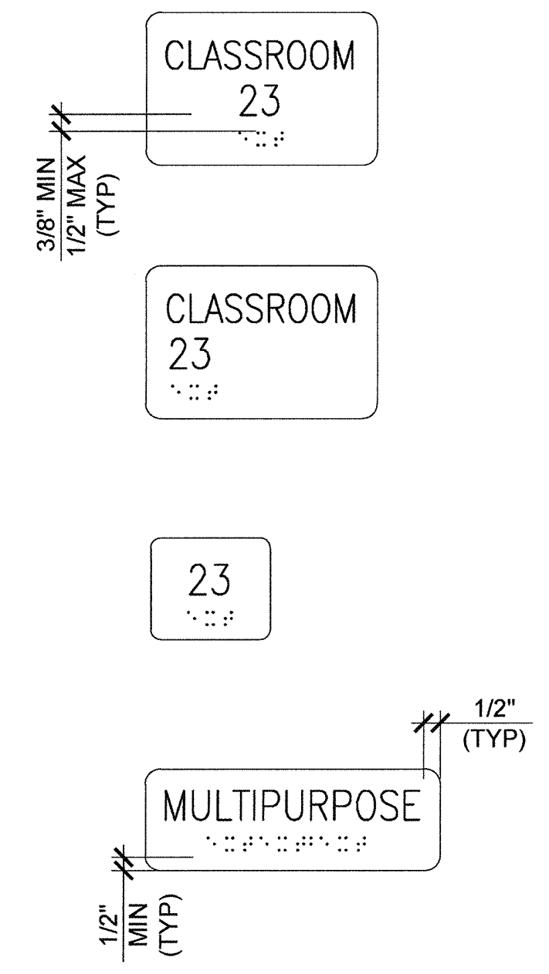


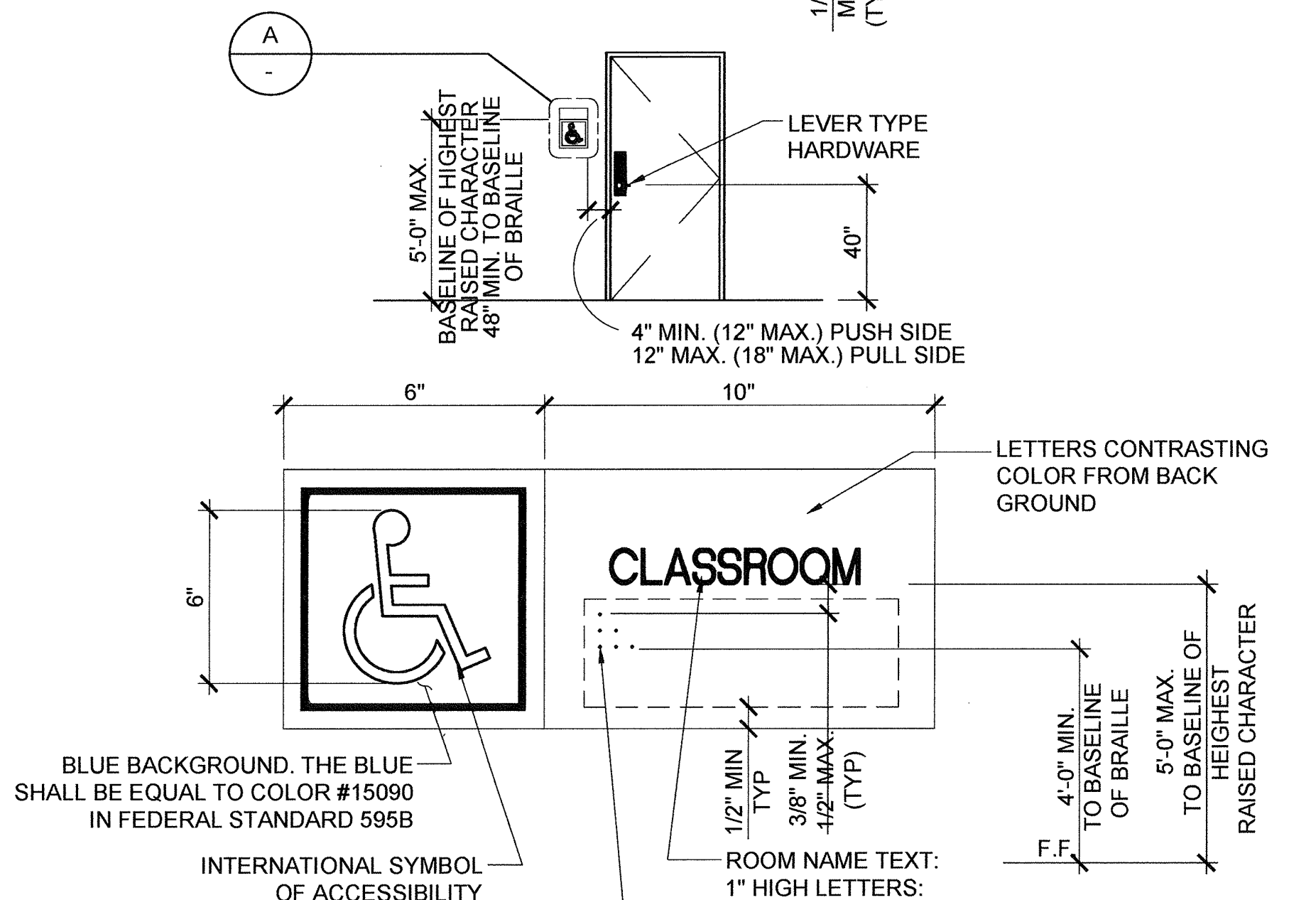
WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE



CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

BRAILLE SPACING TEMPLATE PER TITLE 24




A
-
5'-0" MAX.
BASELINE OF HIGHEST RAISED CHARACTER
48" MIN. TO BASELINE OF BRAILLE
LEVER TYPE HARDWARE
40"
4" MIN. (12" MAX.) PUSH SIDE
12" MAX. (18" MAX.) PULL SIDE
6"
10"
LETTERS CONTRASTING COLOR FROM BACK GROUND
6"
CLASSROOM
1/2" MIN
TYP
3/8" MIN.
1/2" MAX.
(TYP)
4'-0" MIN.
TO BASELINE OF BRAILLE
5'-0" MAX.
TO BASELINE OF HEIGHEST RAISED CHARACTER
F.F.

BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR #15090 IN FEDERAL STANDARD 595B

INTERNATIONAL SYMBOL OF ACCESSIBILITY COLOR: WHITE

ROOM NAME TEXT: 1" HIGH LETTERS: COLOR: WHITE

BRAILLE LETTERS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE DOTS SPACING 1/10" O.C. WITHIN CELL 2/10" BETWEEN CELLS 1/40" MIN. RAISED DOTS

NOTE:
PROVIDE ONE SIGN WHERE INDICATED ON PLANS. LOCATE SIGN MAX. 12" AWAY FROM THE DOOR STRIKE SIDE.

NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC, W/ 1.32" RAISED BORDER, GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703.

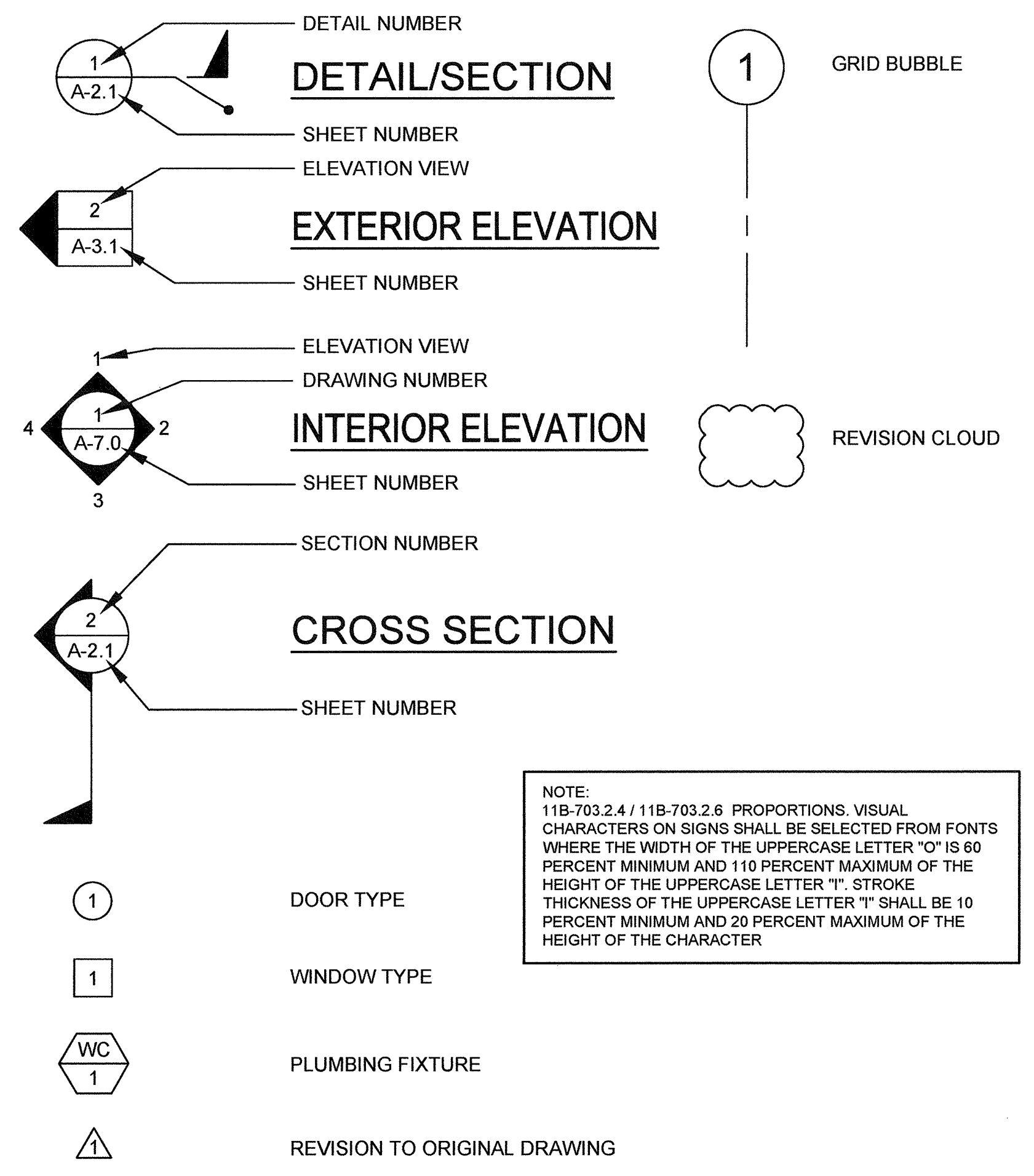
A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



NOTE:
11B-703.2.4 / 11B-703.2.6 PROPORTIONS. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

ABBREVIATIONS

AB	ANCHOR BOLT
ABS	ABSOLUTE
ABV	ABOVE
ACC	ACCESS
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGC	ABOVE GRADE CONCRETE
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL / ARCHITECT
BD	BOARD
BGC	BELOW GRADE CONCRETE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BTWN	BETWEEN
BU	BUILT UP
CAB	CABINET
CBC	CALIFORNIA BUILDING CODE
CI	CAST IRON
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSK	COUNTERSINK
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	END NAIL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXT	EXTERIOR
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FTG	FOOTING
FOF	FACE OF FINISH
GA	GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GR	GRADE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HF	HEM FIR
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
INCL	INCLUDED
INFO	INFORMATION
INT	INTERIOR
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
KO	KNOCK OUT
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUNDS
LT	LIGHT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MAX	MAXIMUM
MB	MACHINE BOLT
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULE
MTL	METAL
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK
NL	NAIL
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ℙ OR PL	PLATE
PC	PRE-CHECKED
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POC	POINT OF CONNECTION
POT	PATH OF TRAVEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAG	RETURN AIR GRILLE
RD	ROOF DRAIN
REF	REFERENCE
REG	REGISTER
REINF	REINFORCE
REQ'D	REQUIRED
REV	REVISION
RF	ROOF
RM	ROOM
RO	ROUGH OPENING
ROH	ROOF OVERHANG
SCHED	SCHEDULE
SEC	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STS	SELF-TAPPING SCREW
STSMS	SELF-TAPPING SHEET METAL SCREW
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
THK	THICK
TOC	TOP OF COLUMN
TOS	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WH	WATER HEATER
WIC	WOODWORK INSTITUTE OF CALIFORNIA
WND	WINDOW
W/O	WITHOUT
WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS

05720 RAILINGS AND HANDRAILS:
ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH, NO SHARP OR ABRASIVE CORNERS EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH.

DIVISION 8 - DOORS

08710 DOOR HARDWARE:
- IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. 11B-404.2.7 / 11B-309.4. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS CHAPTER 10, SECTION 1008.1.9 / 11B-404.2.7 AND 11B-309.4
- THRESHOLDS SHALL COMPLY WITH CBC SECTIONS 1008.1.7 AND 11B-404.2.5.
- FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS POLICY 99-08

08712 EXIT DEVICES: (WHERE APPLICABLE)
MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LB (22.2 N) FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, 5LBS MAX OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBF (66.72 N) PER CBC SECTIONS 1008.1.3 AND 11B-404.2.9.
HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MIN AND 48 INCHES MAX ABOVE THE FLOOR PER CBC SECTION 1008.1.9.2. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOOR SHALL OPERATE AS ABOVE IN EGRESS DIRECTION PER CBC SECTION 1008.1.2

PANIC HARDWARE SHALL NOT BE PROVIDED WITH "NIGHT LATCH" FUNCTION FOR ANY ACCESSIBLE DOORS OR GATES UNLESS THE FOLLOWING CONDITIONS ARE MET PER DSA INTERPRETATION 10-08 DSA/AC. SUCH CONDITIONS MUST BE CLEARLYDEMONSTRATED AND INDICATED IN THE SPECIFICATIONS:
- SUCH HARDWARE HAS A 'DOGGING' FEATURE.
- IT IS DOGGED DURING THE TIME THE FACILITY IS OPEN.
- SUCH 'DOGGING' OPERATION IS PERFORMED ONLY BY EMPLOYEES AS THEIR JOB FUNCTION (NON-PUBLIC USE).

DIVISION 9 - FINISHES

09650 RESILIENT FLOORING:
RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.

09680 CARPETING:
CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT, OR LEVEL-CUT/UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER CBC SECTION 11B-302.2.
CARPET EDGES SHALL COMPLY WITH CBC 11B-303.

DIVISION 10 - SPECIALTIES

10155 TOILET COMPARTMENTS: CBC SECTION 11B-604.8.1.2
TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLT DOOR LATCH, U-SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR AND SELF-CLOSING HINGES. DOORS HARDWARE SHALL BE MOUNTED AT 34" MIN TO 44" MAX ABOVE FINISHED FLOOR. DOORS AT FRONT ENTRY STALLS SHALL HAVE 32" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°. DOORS AT SIDE ENTRY STALLS SHALL HAVE 34" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°.

10800 TOILET ACCESSORIES:
TOILET ACCESSORIES REQUIRED TO BE ACCESSIBLE SHALL BE MOUNTED AT HEIGHTS ACCORDING TO CBC SECTION 11B-213.3. THE GRAB BAR CAN NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET 11B-604.5 / 11B-604.8.1.5 / 11B-604.8.2.3. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL PROJECT MORE THAN THE GRAB BAR. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1 1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR. ACCESSORIES SURFACE MOUNTED ABOVE GRAB BAR WILL RESTRICT USABILITY.

DIVISION 15 - MECHANICAL

15400 PLUMBING FIXTURES:
ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 11B-213.2 / 11B-603.2. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 11B-604.9. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-213.2 / 11B-603.2.

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SILVER CREEK INDUSTRIES, INC.
"BUILDING FOR THE NEXT GENERATION"
SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
SYMBOLS LEGEND,
ABBREVIATIONS &
ADA SIGNAGE

C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ~~N~~ FLS ~~W~~ SS
Date FEB 0 3 2017

REVISIONS

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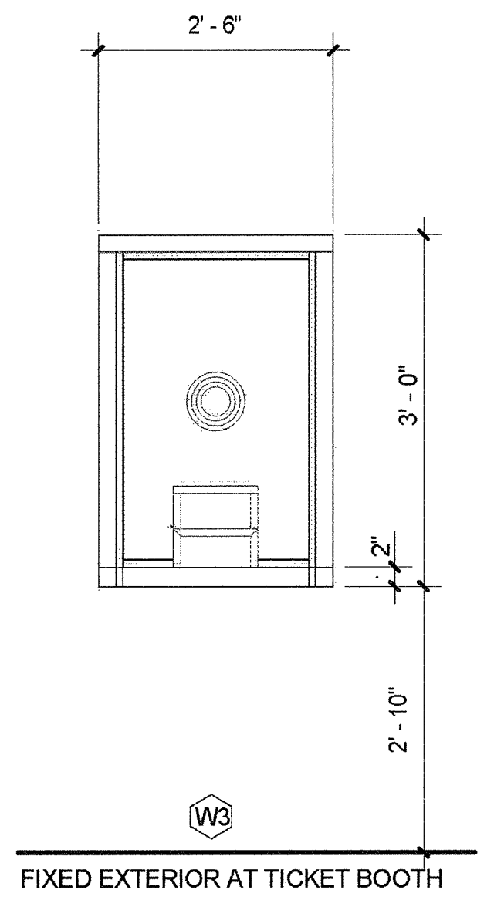
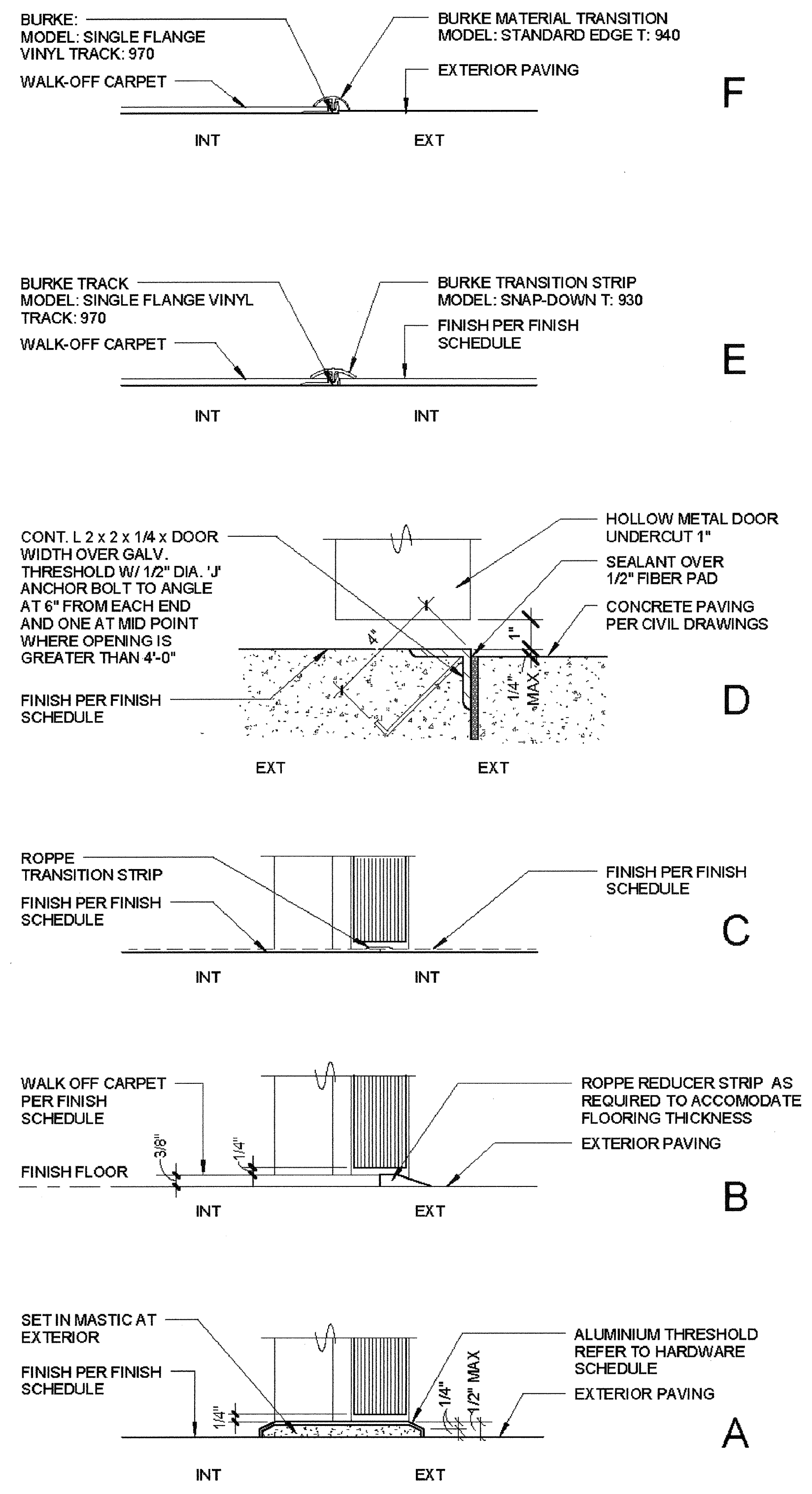
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
A-0.1-T

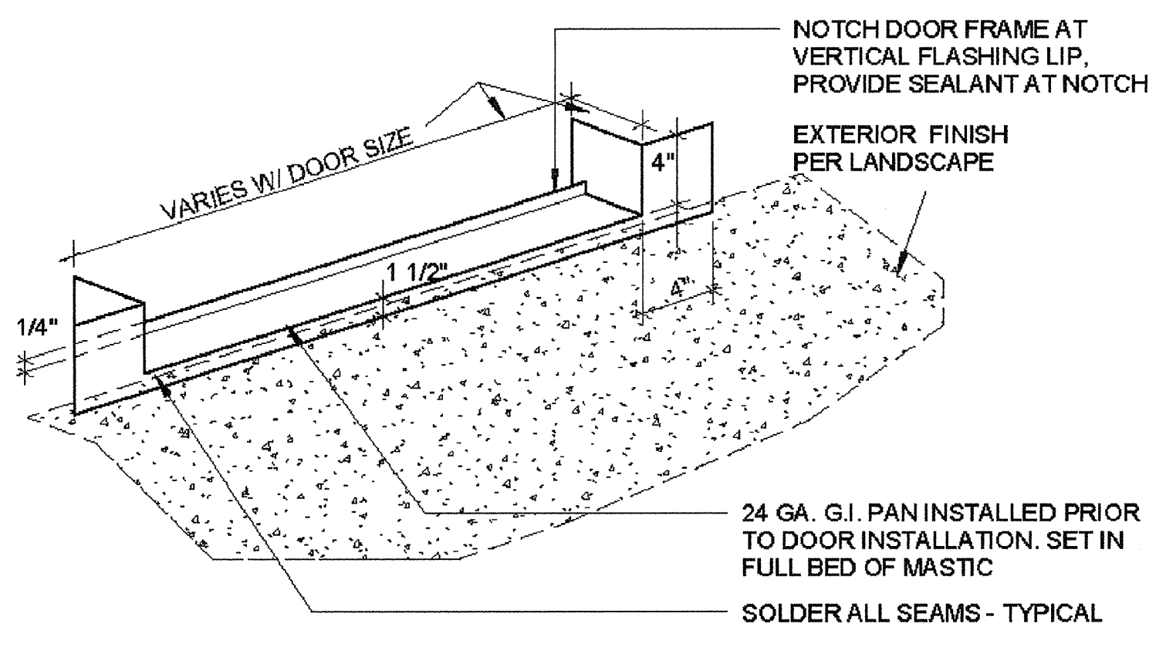
SCHEDULE						
				FRAME		
TYPE	WIDTH	HEIGHT	FIRE RATING	MATERIAL	FINISH	THICKNESS
W3	2' - 6"	3' - 0"	--	ALUM	FF	1/4 CLEAR



FIXED EXTERIOR AT TICKET BOOTH



THRESHOLD DETAILS 3" = 1'-0" 10



EXT. DOOR THRESHOLD FLASHING 3" = 1'-0" 2

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, AND EXTERIOR WALLS. (CLASS 1 = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 719.2. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

INSULATION VALUES
SEE SHEETS A-0.6, A-0.7 FOR REQUIRED INSULATION
VALUES PER CLIMATE ZONE

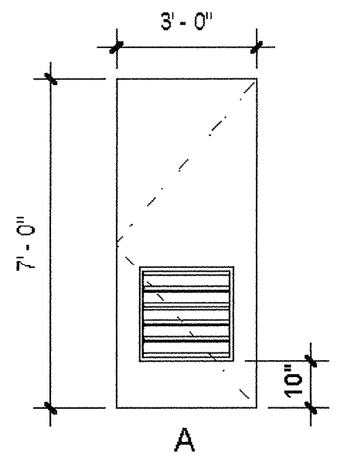
EXTERIOR WALL INSULATION (MIN.)
R-13

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-13

ROOF INSULATION (MIN.)
R-19

DOOR SCHEDULE												
			DOOR			FRAME		DETAILS	HARDWARE			
wt	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	THRESHOLD	GROUP	PH	FIRE RATING	REMARKS
108	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	3			



Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE	
1	EA	CLASSROOM SECURITY	L9071L 06L		626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL	
1	EA	LOCK GUARD	LG10	630	IVE	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN	
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE	
1	EA	FLOOR STOP	FS18L	BLK	IVE	
1	SET	SEALS	2891AS	AL	PEM	
1	EA	DOOR SWEEP	315CN	AL	PEM	
1	EA	THRESHOLD	2727A MSES10	AL	PEM	

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

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PROJECT NAME:

SHEET TITLE:

SCHEDULES

C-33467
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DIV. OF THE STATE ARCHITECT
A 03 117117
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REVISIONS

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PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

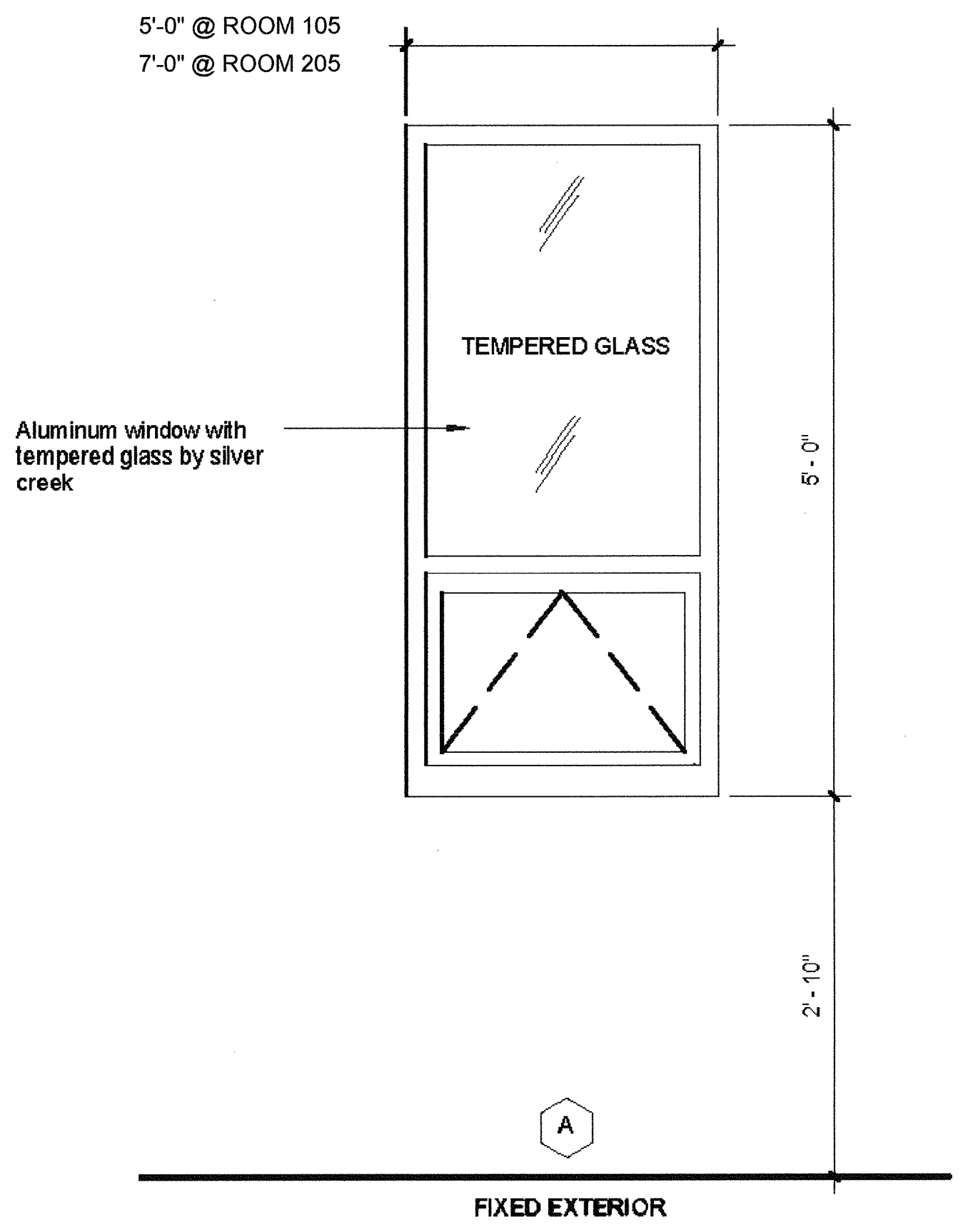
SHEET NUMBER

A-0.2-T

WINDOW SCHEDULE

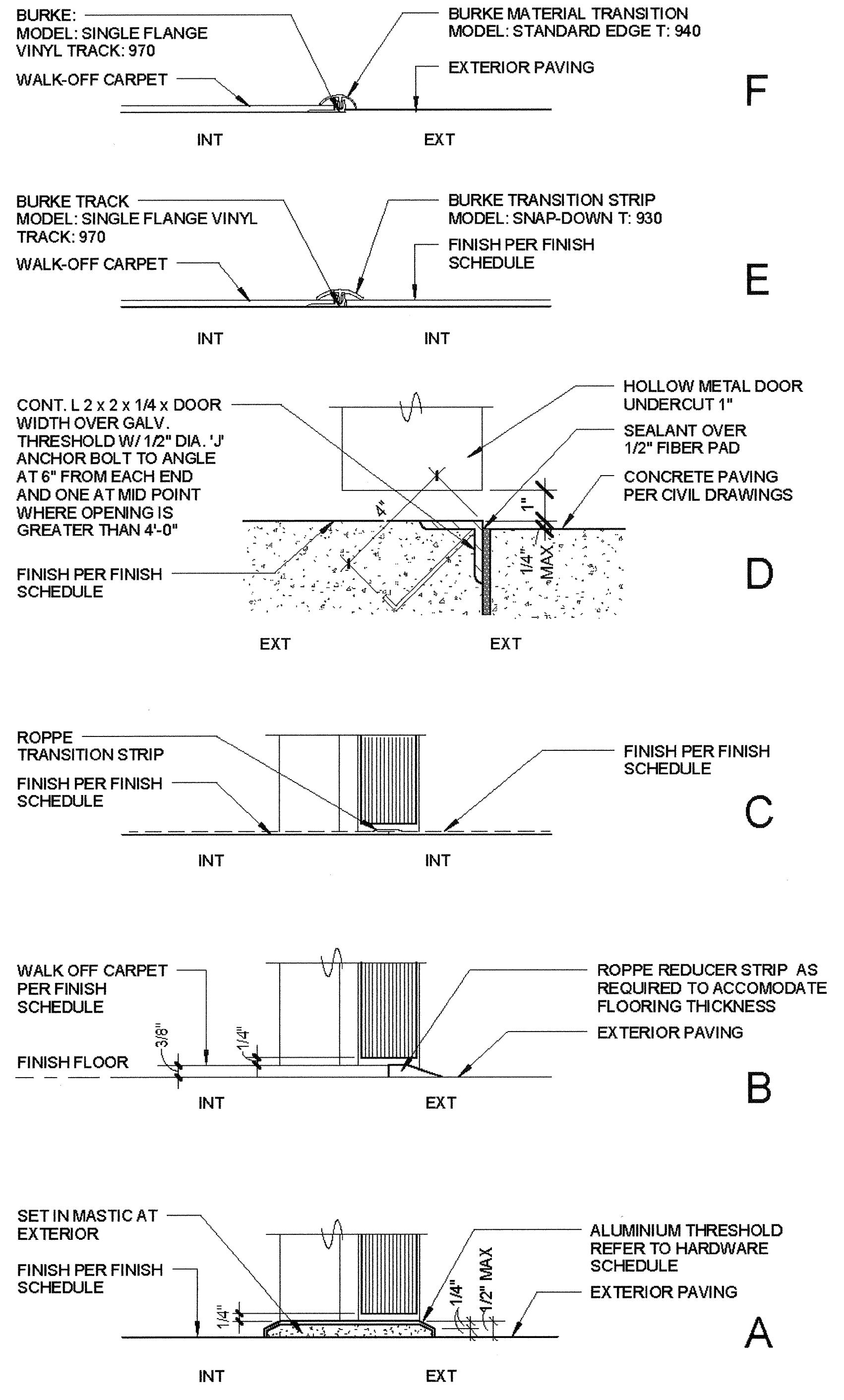
TYPE	WIDTH	HEIGHT	FRAME		GLAZING	DETAILS			FIRE RATING
			MATERIAL	FINISH		HEAD DETAIL	JAMB	SILL HEIGHT	
A	5' - 0"	5' - 0"	ALUM	FF				3' - 0"	

A



FIXED EXTERIOR

WINDOW LEGEND


BURKE:
MODEL: SINGLE FLANGE
VINYL TRACK: 970
WALK-OFF CARPET
BURKE MATERIAL TRANSITION
MODEL: STANDARD EDGE T: 940
EXTERIOR PAVING
INT
EXT
F
BURKE TRACK
MODEL: SINGLE FLANGE VINYL
TRACK: 970
WALK-OFF CARPET
BURKE TRANSITION STRIP
MODEL: SNAP-DOWN T: 930
FINISH PER FINISH SCHEDULE
INT
INT
E
CONT. L 2 x 2 x 1/4 x DOOR WIDTH OVER GALV. THRESHOLD W/ 1/2" DIA. 'J' ANCHOR BOLT TO ANGLE AT 6" FROM EACH END AND ONE AT MID POINT WHERE OPENING IS GREATER THAN 4'-0"
FINISH PER FINISH SCHEDULE
HOLLOW METAL DOOR UNDERCUT 1"
SEALANT OVER 1/2" FIBER PAD
CONCRETE PAVING PER CIVIL DRAWINGS
4"
1"
1/4" MAX
EXT
EXT
D
ROPPE TRANSITION STRIP
FINISH PER FINISH SCHEDULE
FINISH PER FINISH SCHEDULE
INT
INT
C
WALK OFF CARPET PER FINISH SCHEDULE
FINISH FLOOR
3/8"
1/4"
ROPPE REDUCER STRIP AS REQUIRED TO ACCOMODATE FLOORING THICKNESS
EXTERIOR PAVING
INT
EXT
B
SET IN MASTIC AT EXTERIOR
FINISH PER FINISH SCHEDULE
ALUMINIUM THRESHOLD REFER TO HARDWARE SCHEDULE
EXTERIOR PAVING
1/4"
1/4"
1/2" MAX
INT
EXT
A

THRESHOLD DETAILS

DOOR SCHEDULE

wt	WIDTH	HEIGHT	DOOR			FRAME		DETAILS	HARDWARE		FIRE RATING	REMARKS
			TYPE	MATERIAL	FINISH	MATERIAL	FINISH	THRESHOLD	GROUP	PH		
101	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	1			
102A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
102B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
103A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	6			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
103B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	7			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
104A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	2			
104B	8' - 0"	7' - 0"	RLP-1	ALUM	FPFP	ALUM	FPFP	-	8			
105	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	3			
105B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	4			
106A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	3			
106B	8' - 0"	7' - 0"	RLP-1	ALUM	FPFP	ALUM	FPFP	10/A500	8			
108	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	3			
110	3' - 0"	7' - 0"	B	HM	FRA	KD	FRA	10/A500	5		20 MIN.	
201A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	6			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
201B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	7			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
202A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
203A	6' - 6"	7' - 0"	RLP-1	ALUM	FPFP	ALUM	FPFP	-	8			
203B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	2			
204	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	1			
205	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	3			
206A	8' - 0"	7' - 0"	RLP-1	ALUM	FPFP	ALUM	FPFP	-	8			
206B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	10/A500	2			

DOOR SCHEDULE

Heading 1

1	SGL	Door 101	EXTERIOR / CUSTODIAN
1	SGL	Door 101	EXTERIOR / CUSTODIAN
1	SGL	Door 101	EXTERIOR / CUSTODIANEXTERIOR / CUSTODIAN
1	SGL	Door 101	EXTERIOR / CUSTODIAN
1	SGL	Door 204	EXTERIOR / CUSTODIAN
1	SGL	Door 204	EXTERIOR / CUSTODIAN
1	SGL	Door 204	EXTERIOR / CUSTODIANEXTERIOR / CUSTODIAN
1	SGL	Door 204	EXTERIOR / CUSTODIAN SGL HMD

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

STOREROOM FUNCTION ALLOWED PER INTERPRETATION 10-08 DSA/AC (REVISED)
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 2

1	SGL	Door 104A	EXTERIOR / STORAGE
1	SGL	Door 104A	EXTERIOR / STORAGE
1	SGL	Door 104A	EXTERIOR / STORAGE EXTERIOR / STORAGE
1	SGL	Door 104A	EXTERIOR / STORAGE
1	SGL	Door 203B	EXTERIOR / STORAGE
1	SGL	Door 203B	EXTERIOR / STORAGE
1	SGL	Door 203B	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	SGL	Door 203B	EXTERIOR / STORAGE
1	SGL	Door 206B	EXTERIOR / STORAGE
1	SGL	Door 206B	EXTERIOR / STORAGE
1	SGL	Door 206B	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	SGL	Door 206B	EXTERIOR / STORAGE EXT SGL HMD STGE O/S

Each Assembly to have:

3	EA	HINGE 3CB1 4.5 X 4.5 NRP		630	IVE
1	EA	CLASSROOM LOCK	L9070L 06L	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 3

1	SGL	Door 105A	EXTERIOR / CONCESSION
1	SGL	Door 105A	EXTERIOR / CONCESSION
1	SGL	Door 105A	EXTERIOR / CONCESSIONEXTERIOR / CONCESSION
1	SGL	Door 105A	EXTERIOR / CONCESSION
1	SGL	Door 106A	EXTERIOR / STORAGE
1	SGL	Door 106A	EXTERIOR / STORAGE
1	SGL	Door 106A	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	SGL	Door 106A	EXTERIOR / STORAGE
1	SGL	Door 108	EXTERIOR / TICKET BOOTH
1	SGL	Door 108	EXTERIOR / TICKET BOOTH
1	SGL	Door 108	EXTERIOR / TICKET BOOTHEXTERIOR / TICKET BOOTH
1	SGL	Door 108	EXTERIOR / TICKET BOOTH
1	SGL	Door 205	EXTERIOR / CONCESSION
1	SGL	Door 205	EXTERIOR / CONCESSION
1	SGL	Door 205	EXTERIOR / CONCESSIONEXTERIOR / CONCESSION
1	SGL	Door 205	EXTERIOR / CONCESSION

EXT SGL HMD CONCESSION O/S

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 4

1	SGL	Door 105B	EXTERIOR / CONCESSION
1	SGL	Door 105B	EXTERIOR / CONCESSION
1	SGL	Door 105B	EXTERIOR / CONCESSIONEXTERIOR / CONCESSION
1	SGL	Door 105B	EXTERIOR / CONCESSION

EXT SGL HMD CONCESSION O/S SCUCH

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITYL9071L 06L		626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

SEALS ARE SUPPLIED BY THE AL/GL STOREFRONT MANUFACTURER.

Heading 5

1	SGL	Door 110	EXTERIOR / IRRIGATION PUMP HOUSE
1	SGL	Door 110	EXTERIOR / IRRIGATION PUMP HOUSE
1	SGL	Door 110	EXTERIOR / IRRIGATION PUMP HOUSE EXTERIOR / IRRIGATION PUMP HOUSE
1	SGL	Door 110	EXTERIOR / IRRIGATION PUMP HOUSE SGL HMD PUMP ROOM

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 6

1	SGL	Door 102A	EXTERIOR / RESTROOM
1	SGL	Door 102A	EXTERIOR / RESTROOM
1	SGL	Door 102A	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 102A	EXTERIOR / RESTROOM
1	SGL	Door 102B	EXTERIOR / RESTROOM
1	SGL	Door 102B	EXTERIOR / RESTROOM
1	SGL	Door 102B	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 102B	EXTERIOR / RESTROOM
1	SGL	Door 103A	EXTERIOR / RESTROOM
1	SGL	Door 103A	EXTERIOR / RESTROOM
1	SGL	Door 103A	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 103A	EXTERIOR / RESTROOM
1	SGL	Door 201A	EXTERIOR / RESTROOM
1	SGL	Door 201A	EXTERIOR / RESTROOM
1	SGL	Door 201A	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 201A	EXTERIOR / RESTROOM
1	SGL	Door 202A	EXTERIOR / RESTROOM
1	SGL	Door 202A	EXTERIOR / RESTROOM
1	SGL	Door 202A	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 202A	EXTERIOR / RESTROOM

SGL HMD RESTROOM

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 7

1	SGL	Door 103B	EXTERIOR / RESTROOM
1	SGL	Door 103B	EXTERIOR / RESTROOM
1	SGL	Door 103B	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 103B	EXTERIOR / RESTROOM
1	SGL	Door 201B	EXTERIOR / RESTROOM
1	SGL	Door 201B	EXTERIOR / RESTROOM
1	SGL	Door 201B	EXTERIOR / RESTROOMEXTERIOR / RESTROOM
1	SGL	Door 201B	EXTERIOR / RESTROOM

SGL HMD RESTROOM cush

Each Assembly to have:

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 8

1	RU	Door 104B	EXTERIOR / STORAGE
1	RU	Door 104B	EXTERIOR / STORAGE
1	RU	Door 104B	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	RU	Door 104B	EXTERIOR / STORAGE
1	RU	Door 106B	EXTERIOR / STORAGE
1	RU	Door 106B	EXTERIOR / STORAGE
1	RU	Door 106B	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	RU	Door 106B	EXTERIOR / STORAGE
1	RU	Door 203A	EXTERIOR / STORAGE
1	RU	Door 203A	EXTERIOR / STORAGE
1	RU	Door 203A	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	RU	Door 203A	EXTERIOR / STORAGE
1	RU	Door 205A	EXTERIOR / CONCESSION
1	RU	Door 205A	EXTERIOR / CONCESSION
1	RU	Door 205A	EXTERIOR / CONCESSIONEXTERIOR / CONCESSION
1	RU	Door 205A	EXTERIOR / CONCESSION
1	RU	Door 206A	EXTERIOR / STORAGE
1	RU	Door 206A	EXTERIOR / STORAGE
1	RU	Door 206A	EXTERIOR / STORAGEEXTERIOR / STORAGE
1	RU	Door 206A	EXTERIOR / STORAGE EXT ALUMINUM ROLL UP STORAGE

Each Assembly to have:

1	EA	PADLOCK L/CYL-SFIC	KS41D1200	606	SCH
1	EA	SFIC CORE	C607	626	FAL
1	EA	HARDWARE	BALANCE OF HARDWARE BY DOOR SUPPLIER		BYO

EXTERIOR WALL INSULATION (MIN.)
R-19 (2x6)

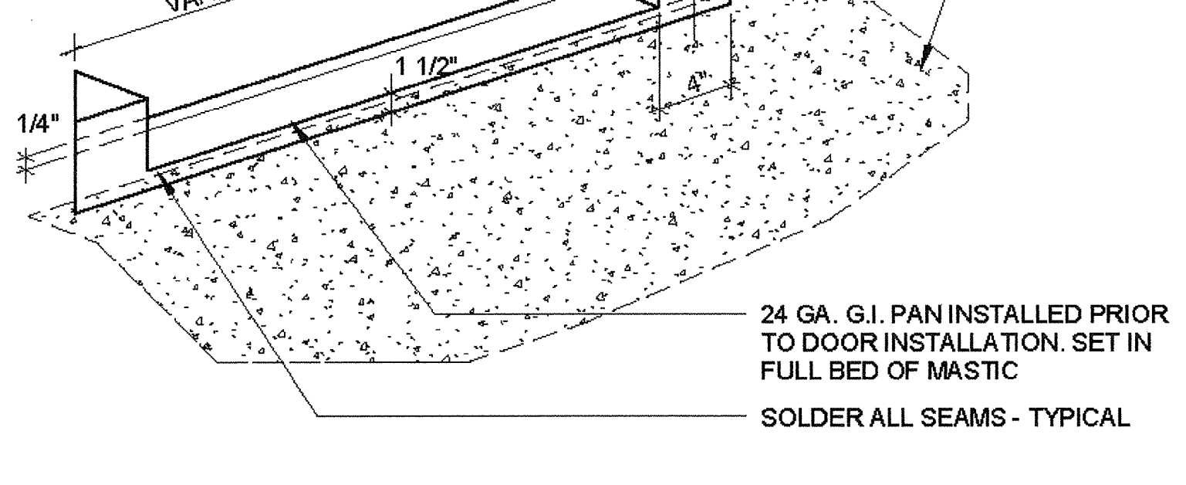
INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-19

ROOF INSULATION (MIN.)
R-30

ALUM - ALUMINUM
KD - KNOCK DOWN FRAME
FPFP - FACTORY PRIMED, FIELD PAINTED
FRA - FIRE RATED ASSEMBLY
FS - FIELD STAINED
GA - GALVANIZED
GL - GLASS OR GLAZING
GS - GALVANIZED STEEL
IG - SEALED INSULATING GLASS PER SPEC
HM - HOLLOW METAL

CODES TO SCHEDULES AND ABBREVIATIONS


NOTCH DOOR FRAME AT VERTICAL FLASHING LIP, PROVIDE SEALANT AT NOTCH
EXTERIOR FINISH PER LANDSCAPE
VARIES W/ DOOR SIZE
4"
1 1/2"
1/4"
4"
24 GA. G.I. PAN INSTALLED PRIOR TO DOOR INSTALLATION. SET IN FULL BED OF MASTIC
SOLDER ALL SEAMS - TYPICAL

EXT. DOOR THRESHOLD FLASHING

DOOR LEGEND

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SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

SCHEDULES

R&S TAVARES ASSOCIATES
DESIGN♦CONSULTING♦PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

LICENSED ARCHITECT
JACK F. SHIVELY III
C-33467
REN 01-31-2017
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

Xref Z:\Fil Carrillo\Stamp - Jack Shively (no signature).dwg

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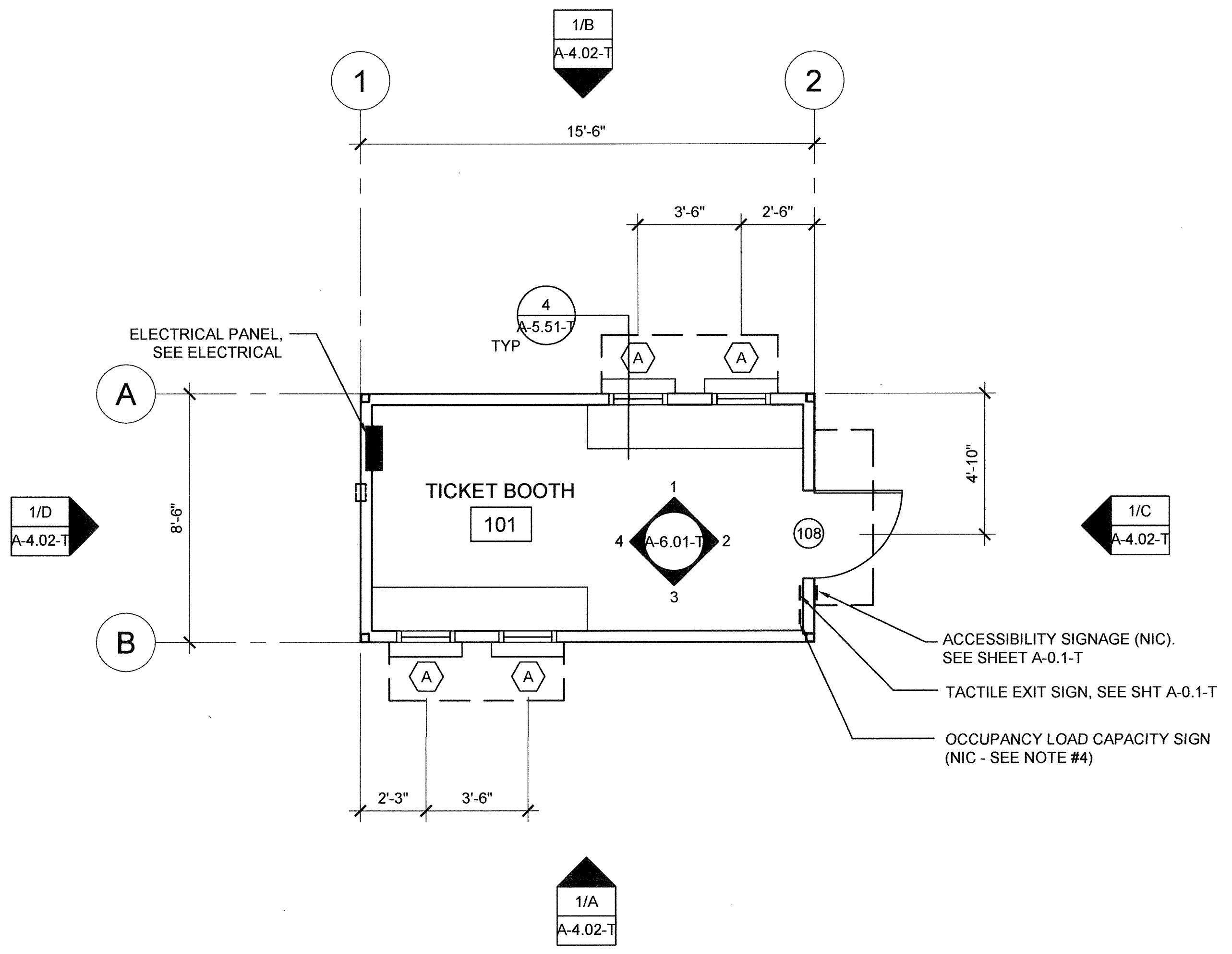
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 09-24-2015

SHEET NUMBER

A-0.3-T



FLOOR PLAN

SCALE:1/4" = 1'-0" | 1

WALL LEGEND

▭ = 2 x 4 NON-BEARING WALL

▨ = 2 x 8 INTERIOR PLUMBING WALL

▩ = 2 x 6 INTERIOR PLUMBING WALL

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE, REFER TO IR 16-1 SECTION 2.1.

   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = .0 2010 CBC

2. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET COVER SHEET PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE SHEET A-0.1 PROVIDED AND INSTALLED BY OTHERS ONSITE.

3. FLOOR PLAN SHOWN AS FLUSH WITH GRADE. FOR ABOVE GRADE SYSTEMS, REFER TO LANDING AND RAMP SHEETS FOR CLARITY

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PROJECT NAME:

SHEET TITLE:

FLOOR PLANS

C-33467
REN 01-31-2017

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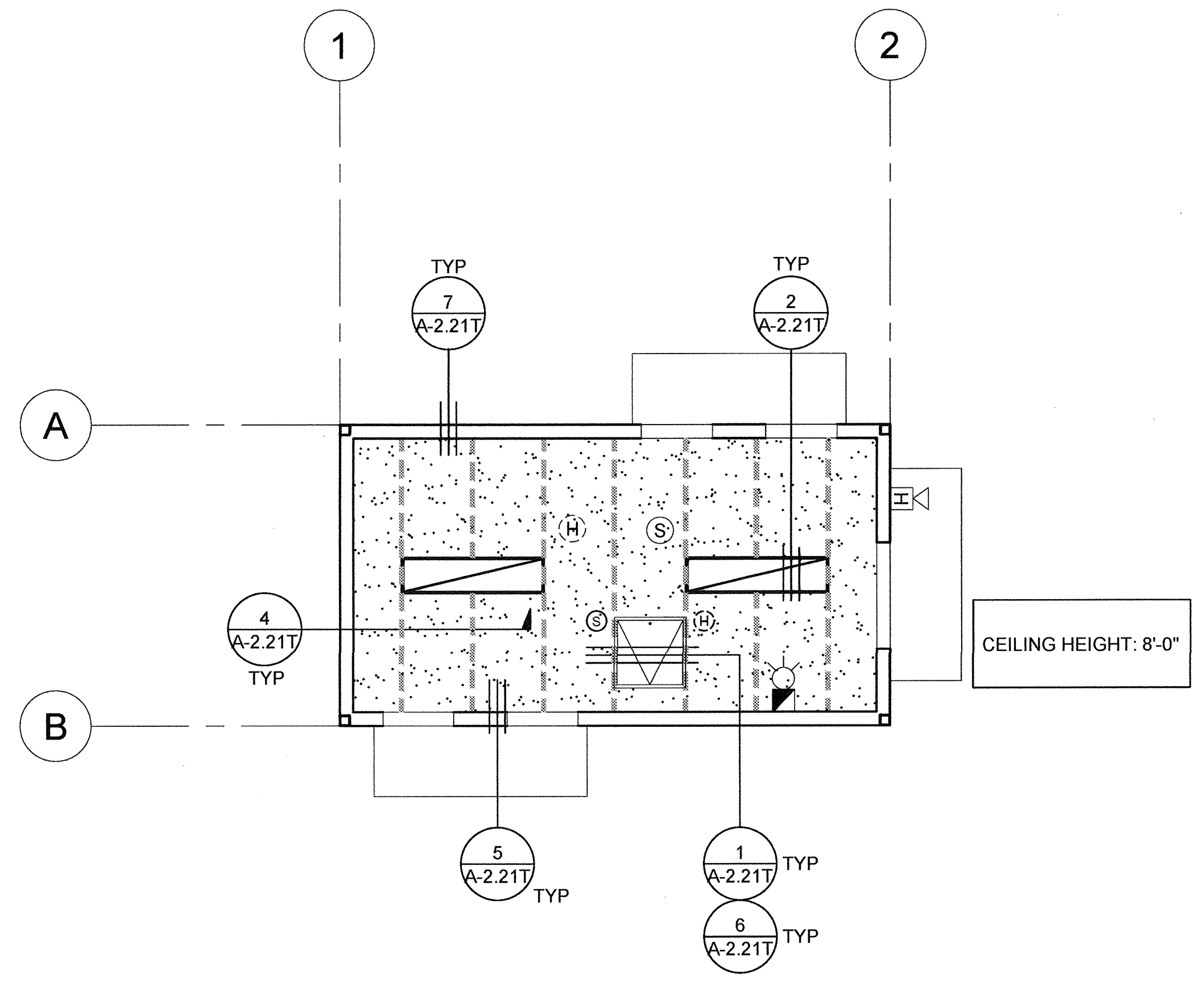
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER

A-1.01-T



GYPSUM BOARD CEILING PLAN (OPTIONAL APPLICATION)

SCALE:1/4" = 1'-0" 1

LEGEND

⊠	= 12" X 48" RECESSED FIXTURE. SEE SHEET ELECTRICAL SHEETS FOR REFERENCE.
▨	= DRYWALL CEILING FINISH. VERIFY WITH OWNER FOR TEXTURE FINISH.

NOTES:

NOTE:
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

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PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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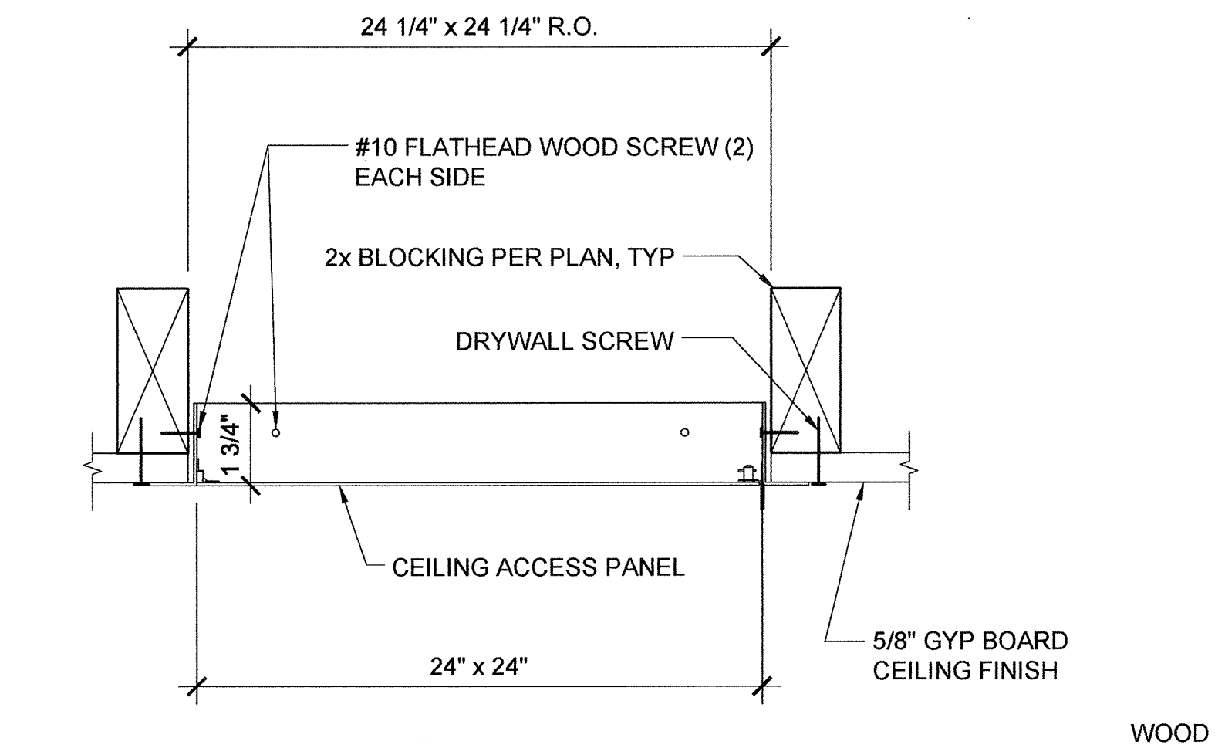
PROJECT NO:	
DRAWN BY:	FIL CARRILLO
SCALE:	AS NOTED
DATE:	02/04/2015

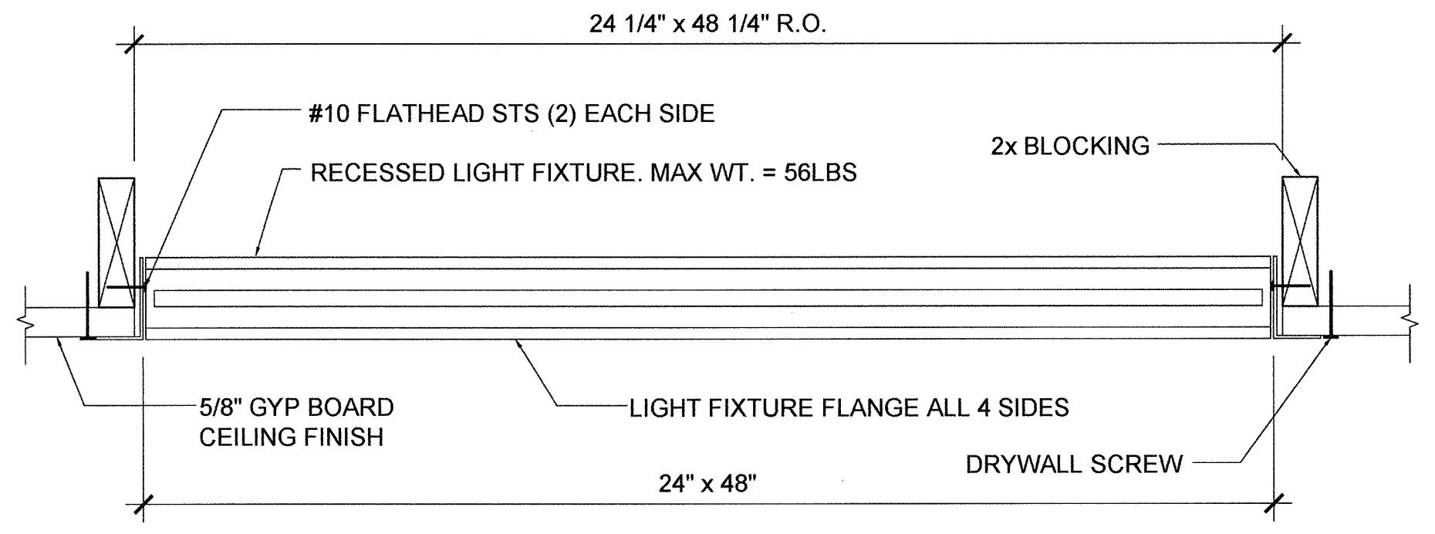
SHEET NUMBER

A-2.01-T


24 1/4" x 24 1/4" R.O.
#10 FLATHEAD WOOD SCREW (2) EACH SIDE
2x BLOCKING PER PLAN, TYP
DRYWALL SCREW
1 3/4"
CEILING ACCESS PANEL
24" x 24"
5/8" GYP BOARD CEILING FINISH

WOOD

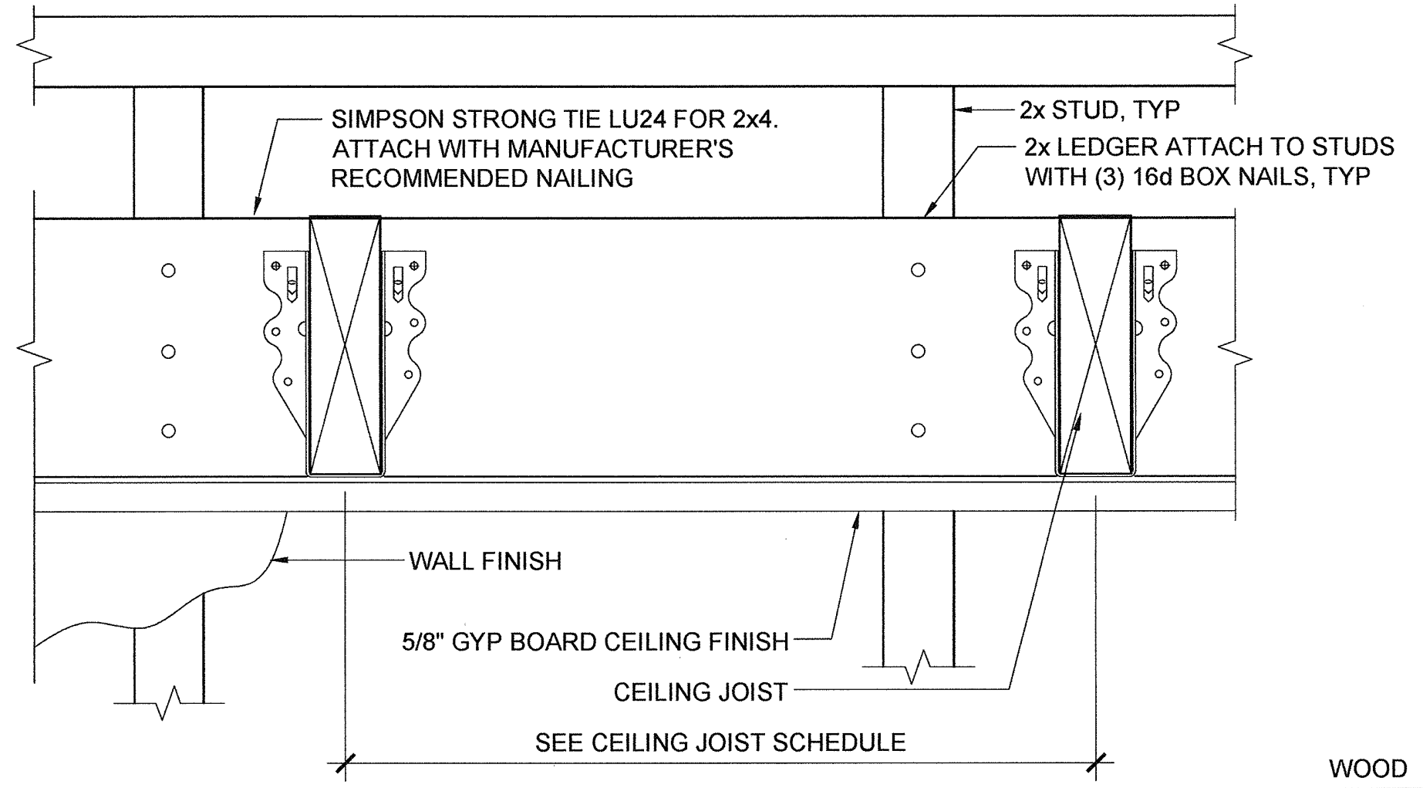
1 CEILING ACCESS PANEL SCALE : 3" = 1'-0"


24 1/4" x 48 1/4" R.O.
#10 FLATHEAD STS (2) EACH SIDE
RECESSED LIGHT FIXTURE. MAX WT. = 56LBS
2x BLOCKING
5/8" GYP BOARD CEILING FINISH
LIGHT FIXTURE FLANGE ALL 4 SIDES
DRYWALL SCREW
24" x 48"

WOOD

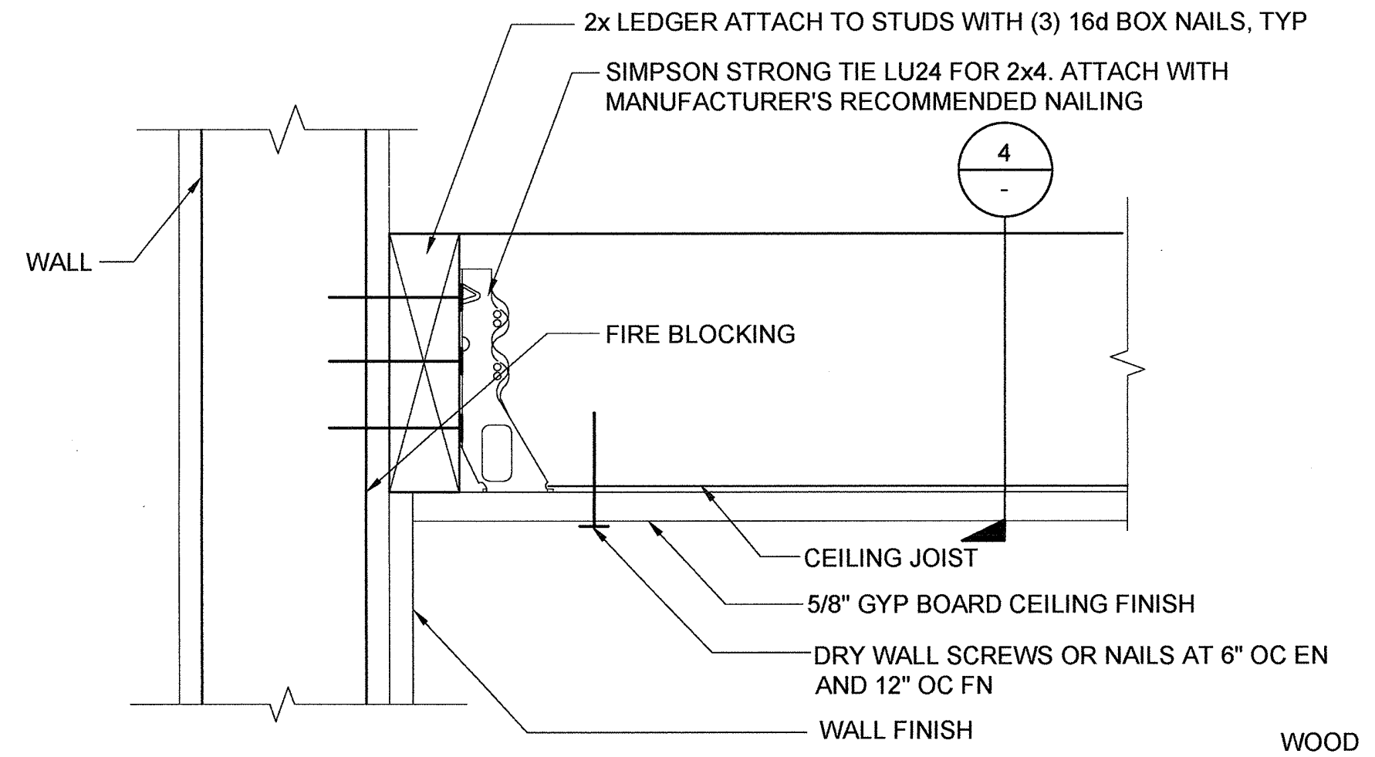
2 RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0"

3 NOT USED


SIMPSON STRONG TIE LU24 FOR 2x4. ATTACH WITH MANUFACTURER'S RECOMMENDED NAILING
2x STUD, TYP
2x LEDGER ATTACH TO STUDS WITH (3) 16d BOX NAILS, TYP
WALL FINISH
5/8" GYP BOARD CEILING FINISH
CEILING JOIST
SEE CEILING JOIST SCHEDULE

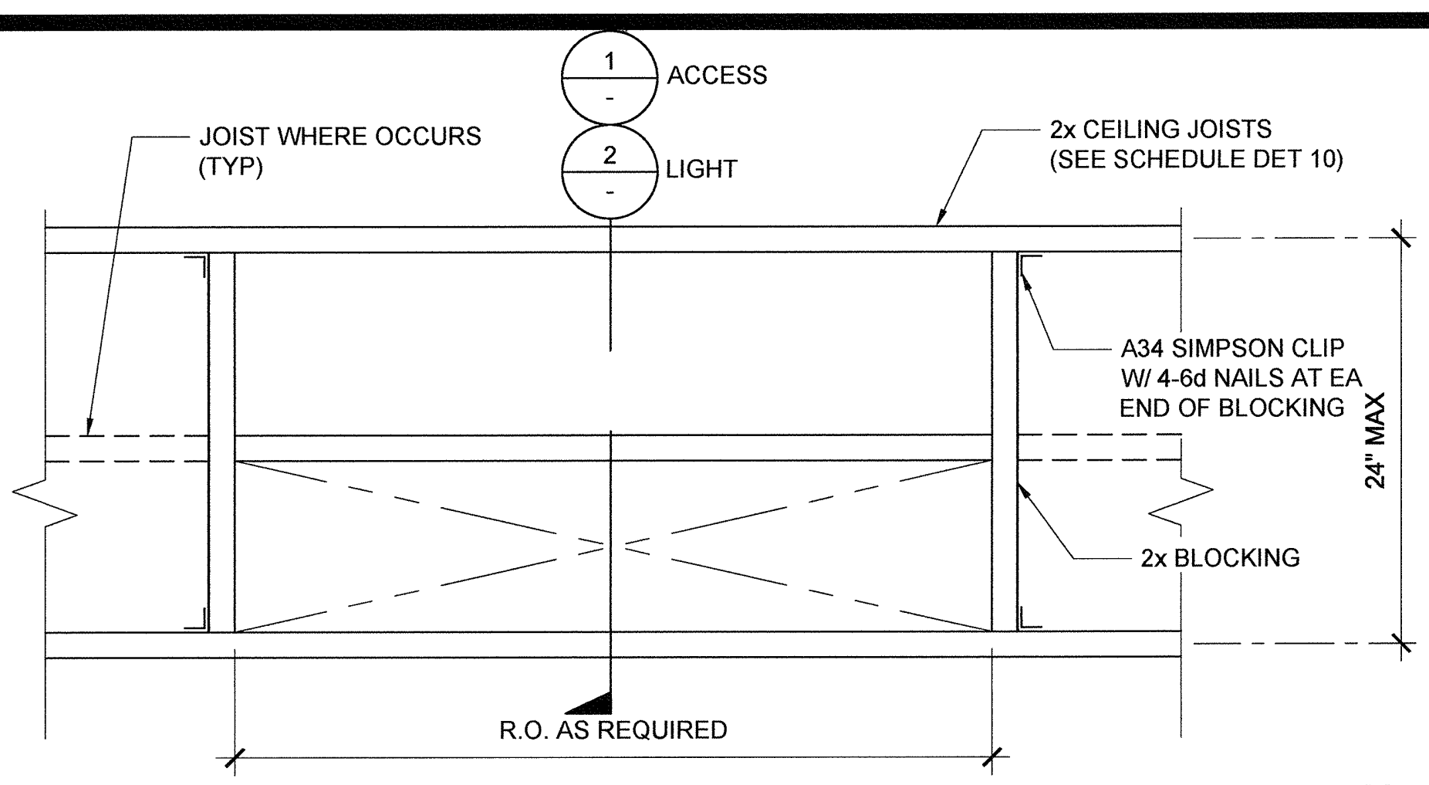
WOOD

4 HARD LID CEILING CONNECTION SCALE : 3" = 1'-0"


2x LEDGER ATTACH TO STUDS WITH (3) 16d BOX NAILS, TYP
SIMPSON STRONG TIE LU24 FOR 2x4. ATTACH WITH MANUFACTURER'S RECOMMENDED NAILING
4
-
WALL
FIRE BLOCKING
CEILING JOIST
5/8" GYP BOARD CEILING FINISH
DRY WALL SCREWS OR NAILS AT 6" OC EN AND 12" OC FN
WALL FINISH

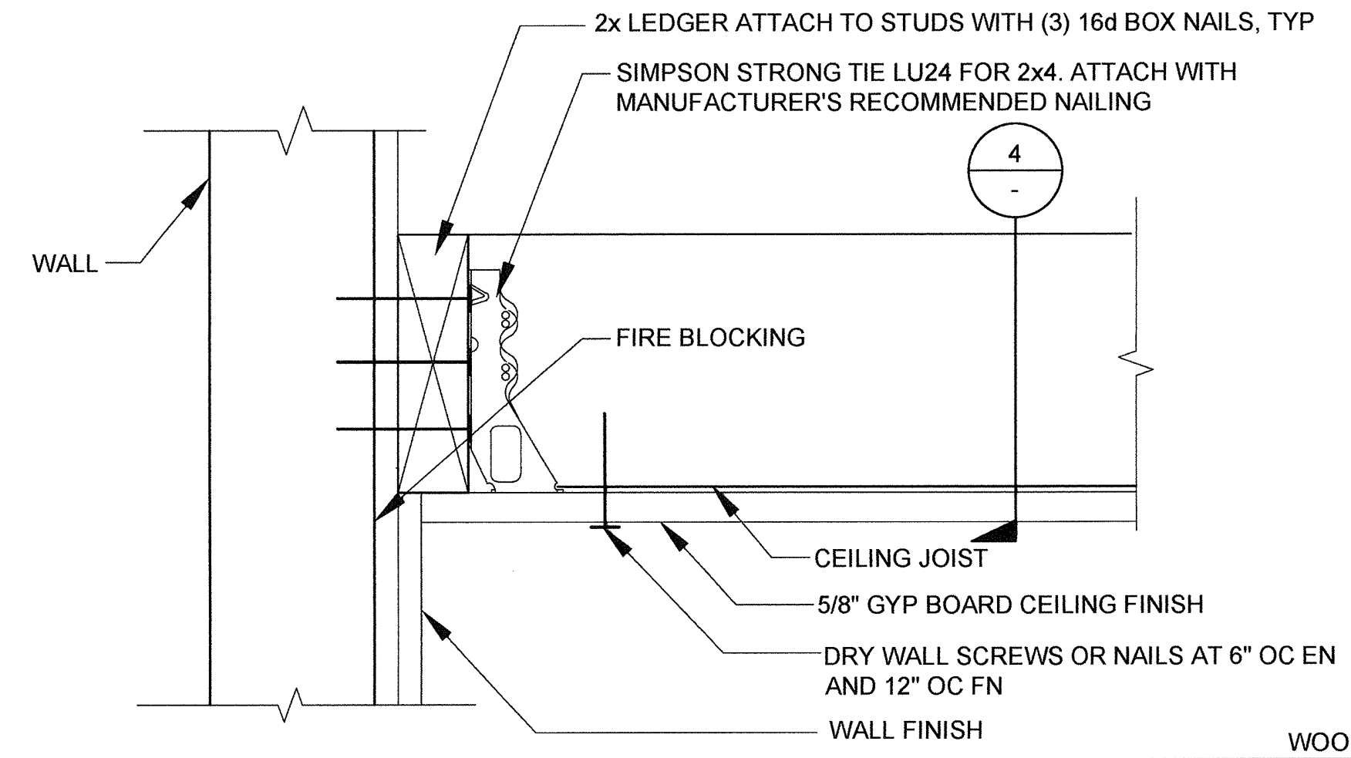
WOOD

5 HARD LID CEILING CONNECTION SCALE : 3" = 1'-0"


1
-
ACCESS
2
-
LIGHT
JOIST WHERE OCCURS (TYP)
2x CEILING JOISTS (SEE SCHEDULE DET 10)
A34 SIMPSON CLIP W/ 4-6d NAILS AT EA END OF BLOCKING
24" MAX
2x BLOCKING
R.O. AS REQUIRED

WOOD

6 RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0"


2x LEDGER ATTACH TO STUDS WITH (3) 16d BOX NAILS, TYP
SIMPSON STRONG TIE LU24 FOR 2x4. ATTACH WITH MANUFACTURER'S RECOMMENDED NAILING
4
-
WALL
FIRE BLOCKING
CEILING JOIST
5/8" GYP BOARD CEILING FINISH
DRY WALL SCREWS OR NAILS AT 6" OC EN AND 12" OC FN
WALL FINISH

WOOD

7 HARD LID CEILING @ CHASE SCALE : 3" = 1'-0"

8 NOT USED

9 NOT USED

2X4 JOIST TABLE

SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"

10 WOOD CEILING JOIST SCHEDULE SCALE : NTS

11 NOT USED

12 NOT USED

13 NOT USED

14 NOT USED

15 NOT USED

16 NOT USED

17 NOT USED

18 NOT USED

19 NOT USED

20 NOT USED

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
(HARD LID)

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD

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PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
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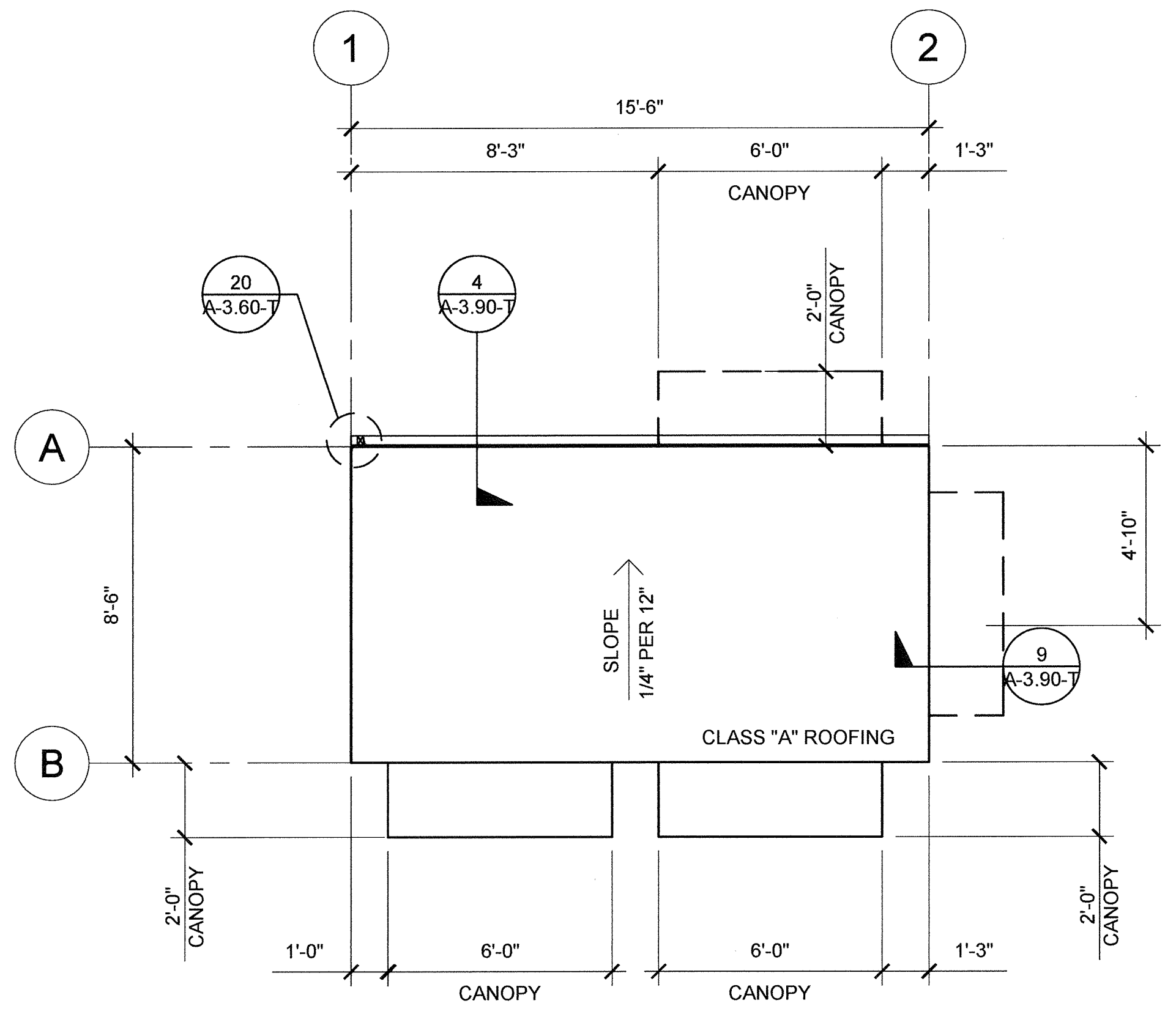

ROOF PLAN (8'-6" X 15'-6")

SCALE:1/4" = 1'-0"

1

NOT USED

2

NOT USED

3

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PROJECT NAME:

SHEET TITLE:

ROOF PLANS

C-33467
REN 01-31-2017

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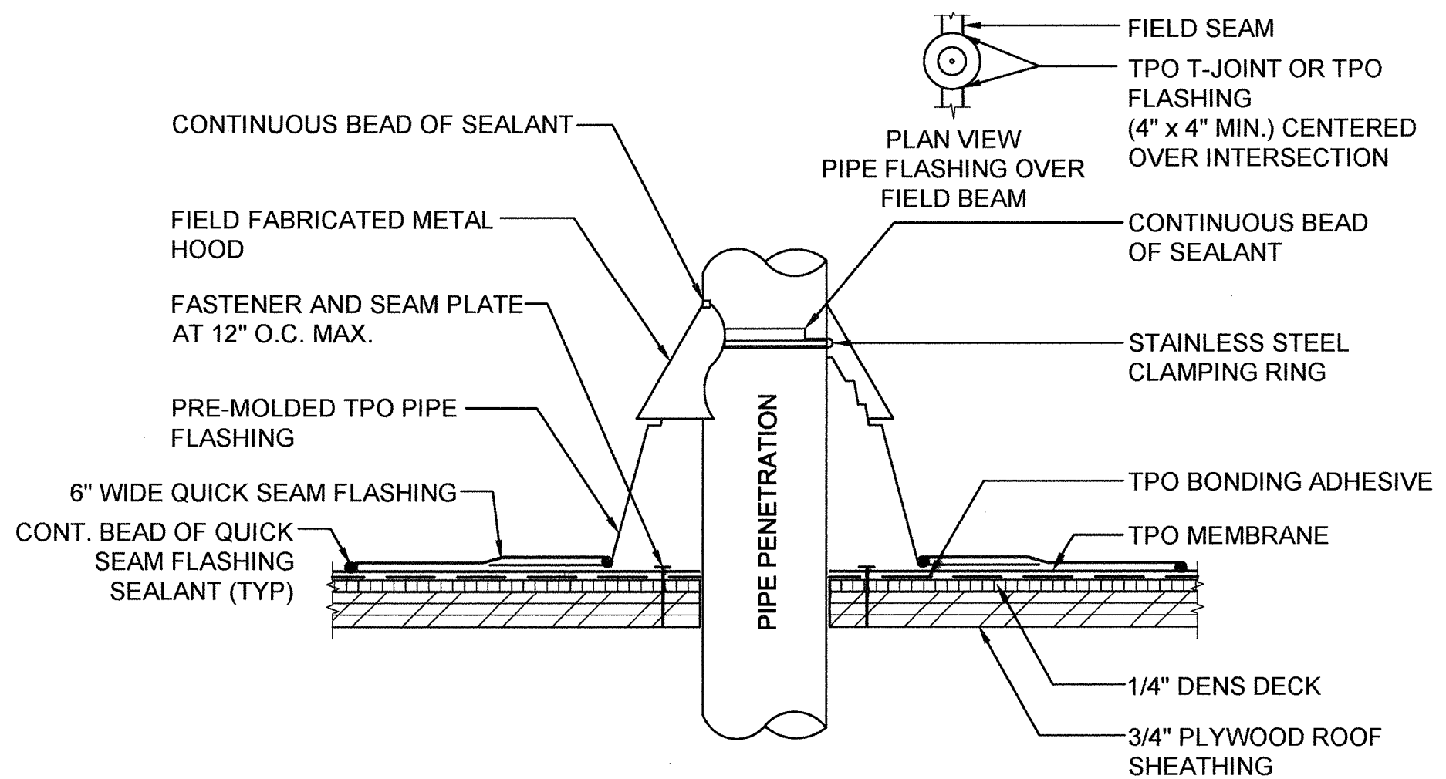
16

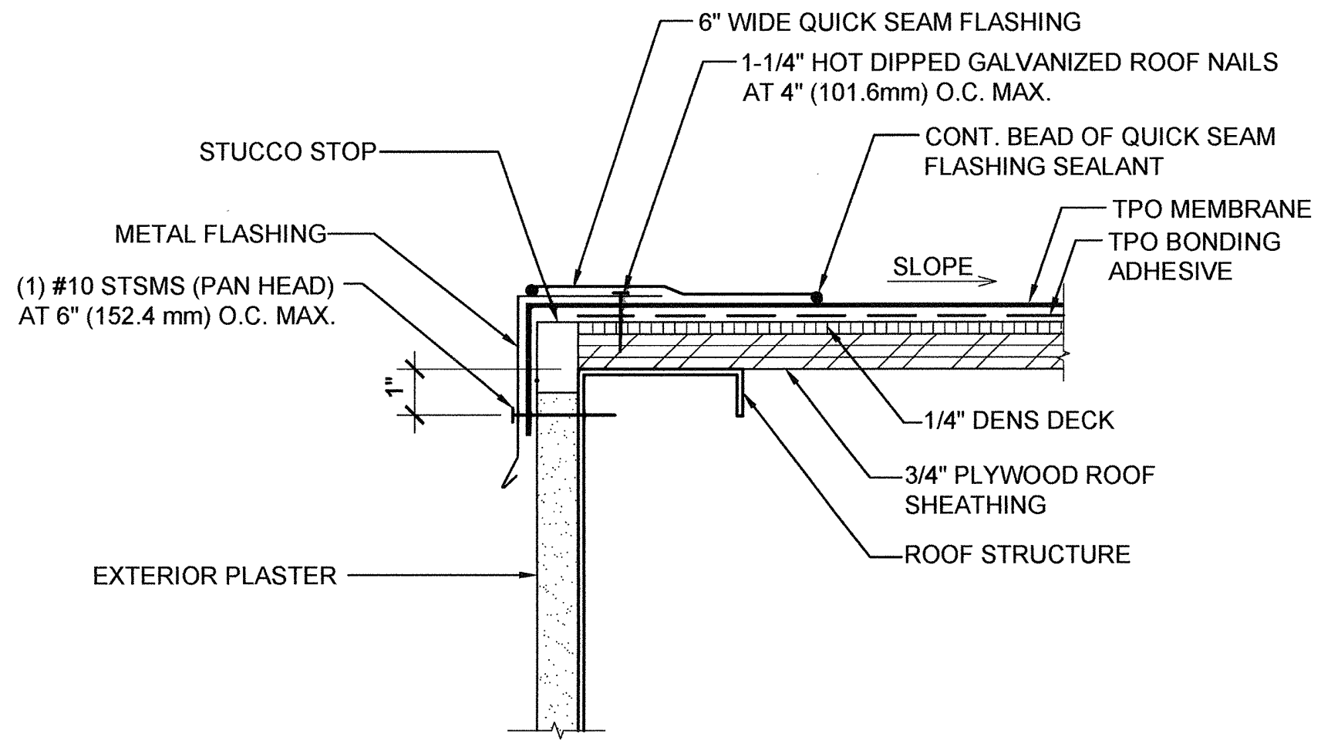

FIELD SEAM
TPO T-JOINT OR TPO FLASHING (4" x 4" MIN.) CENTERED OVER INTERSECTION
PLAN VIEW PIPE FLASHING OVER FIELD BEAM
CONTINUOUS BEAD OF SEALANT
FIELD FABRICATED METAL HOOD
FASTENER AND SEAM PLATE AT 12" O.C. MAX.
PRE-MOLDED TPO PIPE FLASHING
6" WIDE QUICK SEAM FLASHING
CONT. BEAD OF QUICK SEAM FLASHING SEALANT (TYP)
CONTINUOUS BEAD OF SEALANT
STAINLESS STEEL CLAMPING RING
TPO BONDING ADHESIVE
TPO MEMBRANE
PIPE PENETRATION
1/4" DENS DECK
3/4" PLYWOOD ROOF SHEATHING

DETAIL AT PIPE FLASHING
SCALE: 3"=1'-0" 11

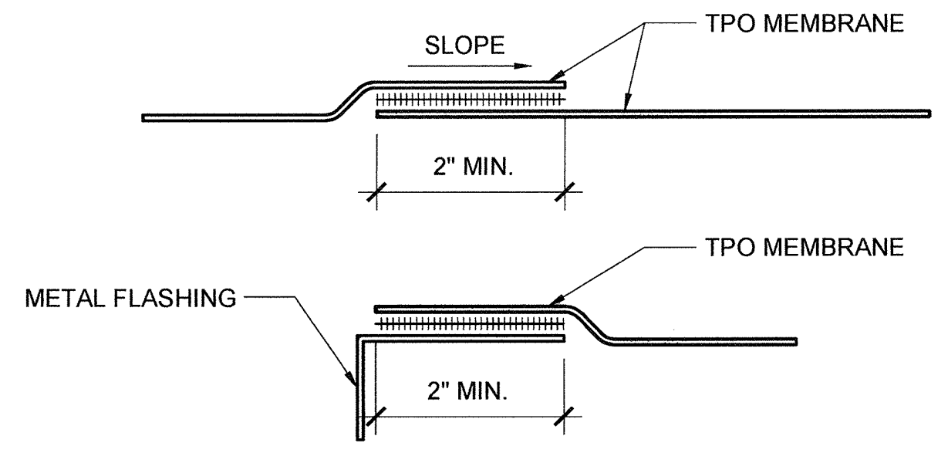
ROOF AT HIGH END (WOOD SIDING FINISH)
SCALE: 3"=1'-0" 6

NOT USED
1

17


6" WIDE QUICK SEAM FLASHING
1-1/4" HOT DIPPED GALVANIZED ROOF NAILS AT 4" (101.6mm) O.C. MAX.
STUCCO STOP
CONT. BEAD OF QUICK SEAM FLASHING SEALANT
TPO MEMBRANE
TPO BONDING ADHESIVE
METAL FLASHING
SLOPE
(1) #10 STSMS (PAN HEAD) AT 6" (152.4 mm) O.C. MAX.
1"
1/4" DENS DECK
3/4" PLYWOOD ROOF SHEATHING
ROOF STRUCTURE
EXTERIOR PLASTER

ROOF AT HIGH END (STUCCO FINISH)
SCALE: 3"=1'-0" 12



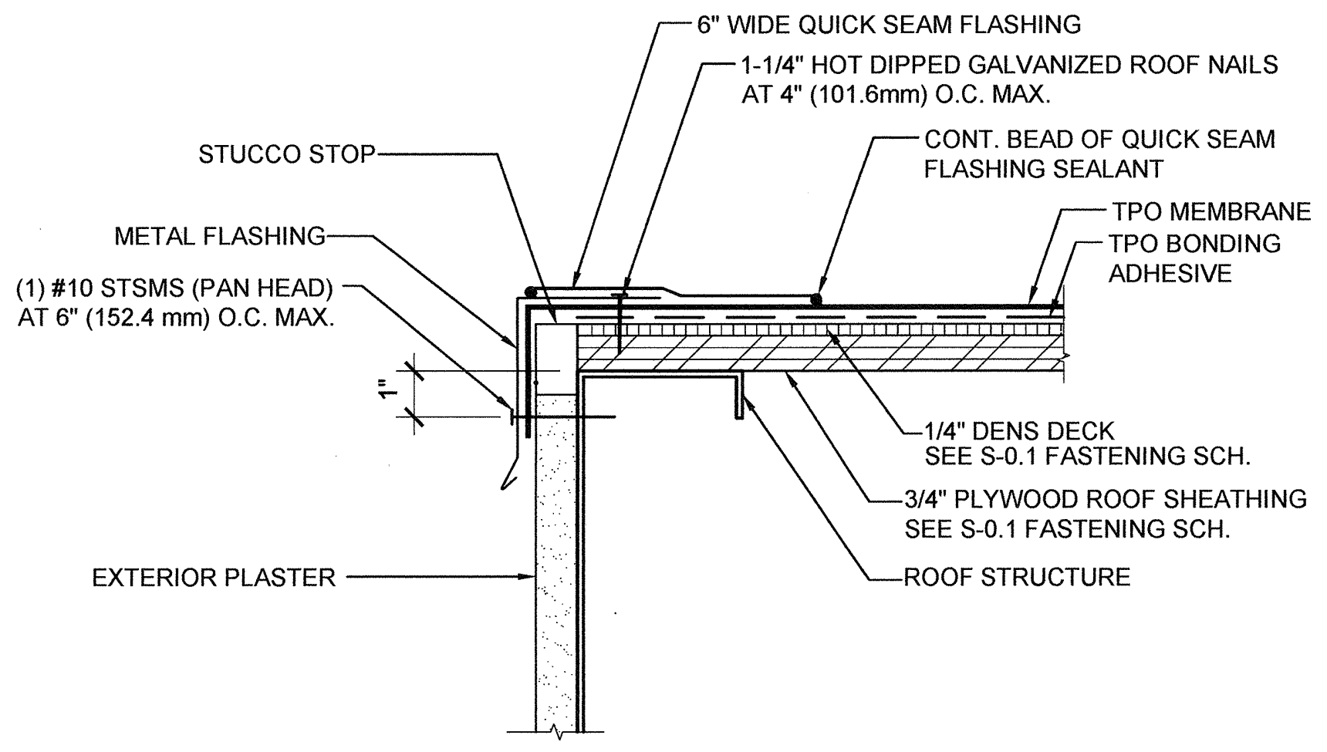
TPO LAP SPLICE
SCALE: 6" = 1'-0" 7 2

18

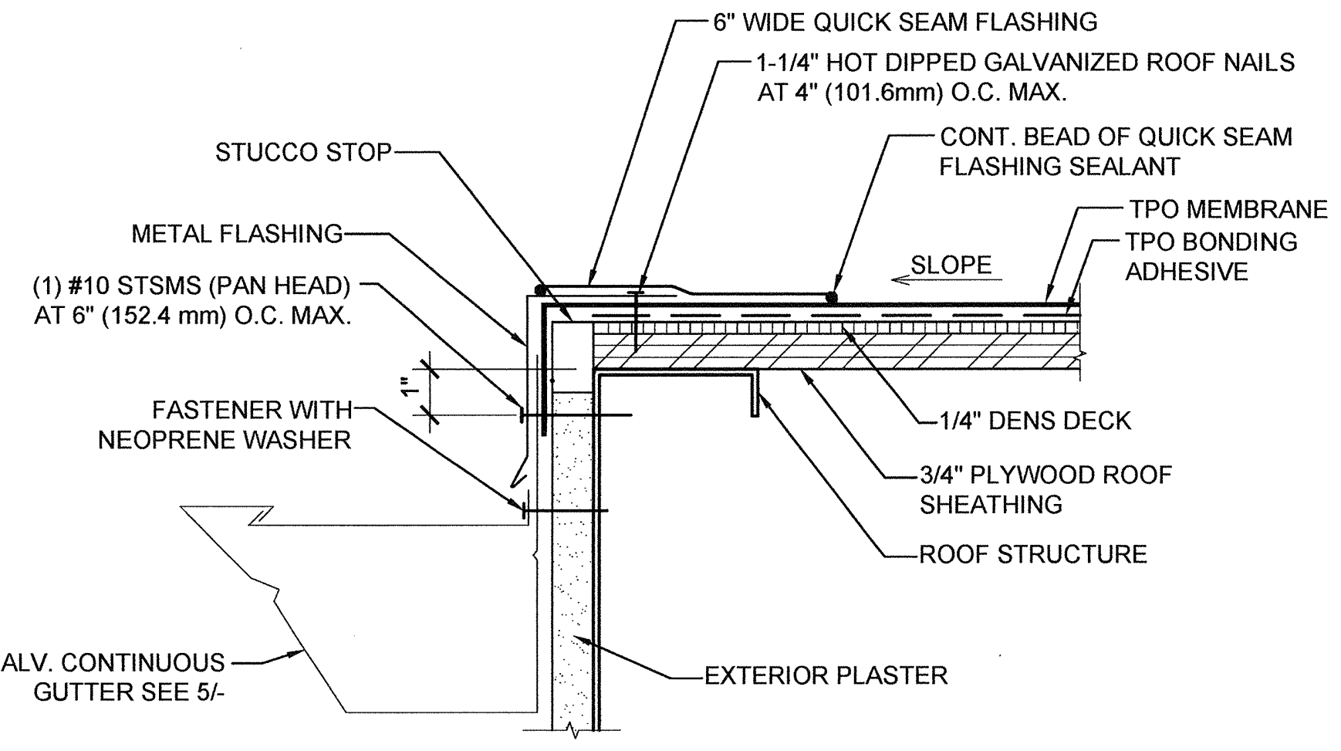
ROOF AT SIDEWALL (WOOD SIDING FINISH)
SCALE: 3" = 1'-0" 13

ROOF AT LOW END (WOOD SIDING FINISH)
SCALE: 3"=1'-0" 8 3

19

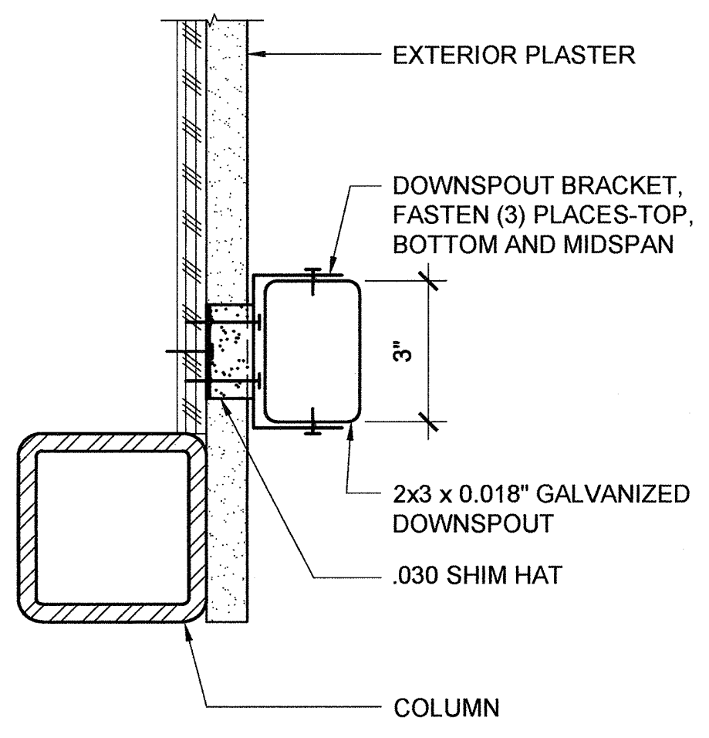

6" WIDE QUICK SEAM FLASHING
1-1/4" HOT DIPPED GALVANIZED ROOF NAILS AT 4" (101.6mm) O.C. MAX.
STUCCO STOP
CONT. BEAD OF QUICK SEAM FLASHING SEALANT
TPO MEMBRANE
TPO BONDING ADHESIVE
METAL FLASHING
(1) #10 STSMS (PAN HEAD) AT 6" (152.4 mm) O.C. MAX.
1"
1/4" DENS DECK SEE S-0.1 FASTENING SCH.
3/4" PLYWOOD ROOF SHEATHING SEE S-0.1 FASTENING SCH.
ROOF STRUCTURE
EXTERIOR PLASTER

ROOF AT SIDEWALL (STUCCO FINISH)
SCALE: 3" = 1'-0" 14

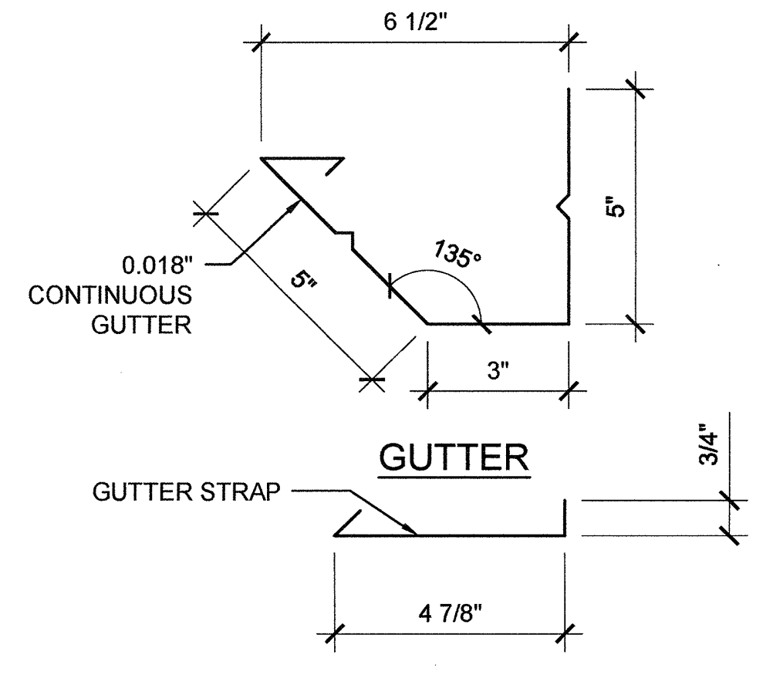

6" WIDE QUICK SEAM FLASHING
1-1/4" HOT DIPPED GALVANIZED ROOF NAILS AT 4" (101.6mm) O.C. MAX.
STUCCO STOP
CONT. BEAD OF QUICK SEAM FLASHING SEALANT
TPO MEMBRANE
TPO BONDING ADHESIVE
METAL FLASHING
SLOPE
(1) #10 STSMS (PAN HEAD) AT 6" (152.4 mm) O.C. MAX.
1"
FASTENER WITH NEOPRENE WASHER
1/4" DENS DECK
3/4" PLYWOOD ROOF SHEATHING
ROOF STRUCTURE
.018 GALV. CONTINUOUS GUTTER SEE 5/-
EXTERIOR PLASTER

ROOF AT LOW END (STUCCO FINISH)
SCALE: 3" = 1'-0" 9 4

20


EXTERIOR PLASTER
DOWNSPOUT BRACKET, FASTEN (3) PLACES-TOP, BOTTOM AND MIDSPAN
3"
2x3 x 0.018" GALVANIZED DOWNSPOUT
.030 SHIM HAT
COLUMN

DOWNSPOUT ATTACHMENT
SCALE : 3" = 1'-0" 15



0.018" GUTTER AND GUTTER STRAP
SCALE : 3" = 1'-0" 10 5

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"BUILDING FOR THE NEXT GENERATION"
SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOFING DETAILS
TPO ROOF

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS EY SS
Date FEB 03 2017

REVISIONS

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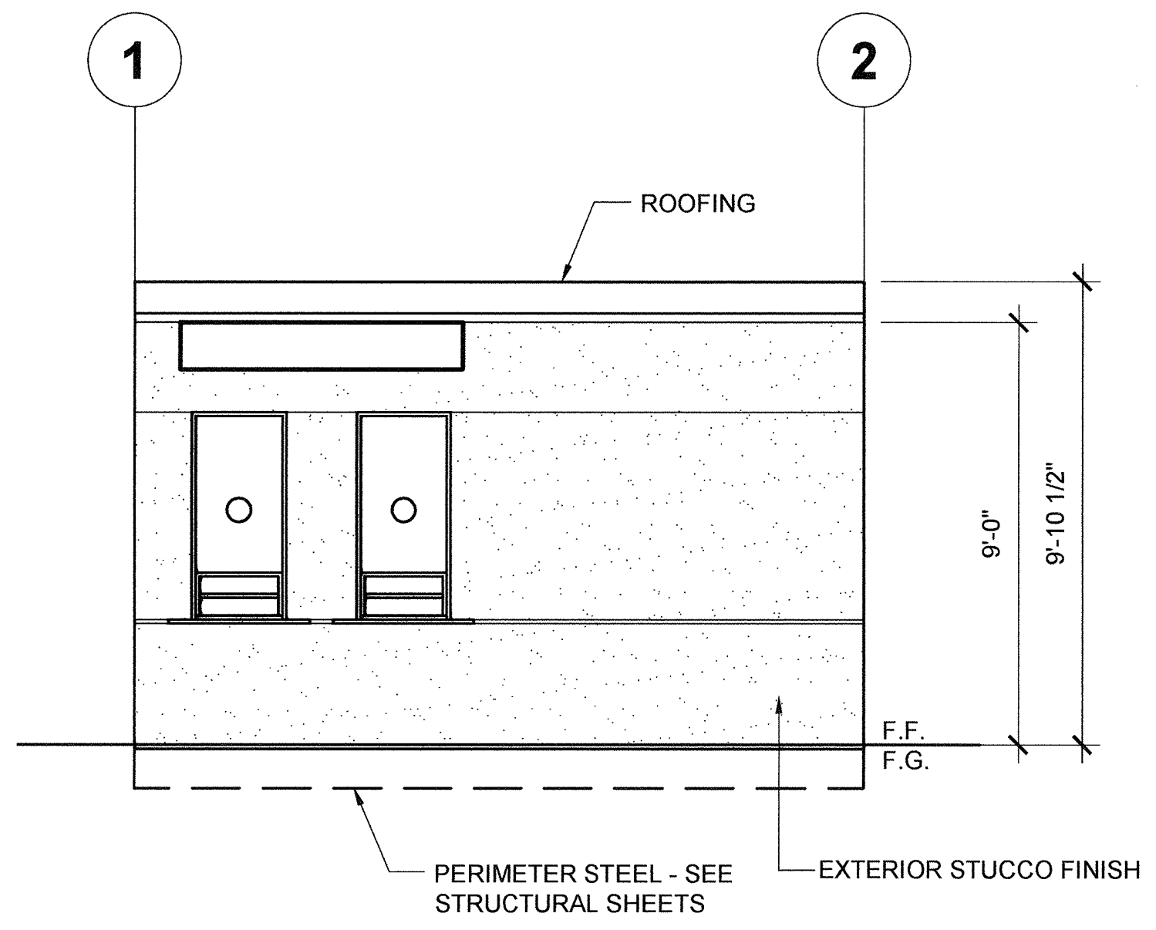
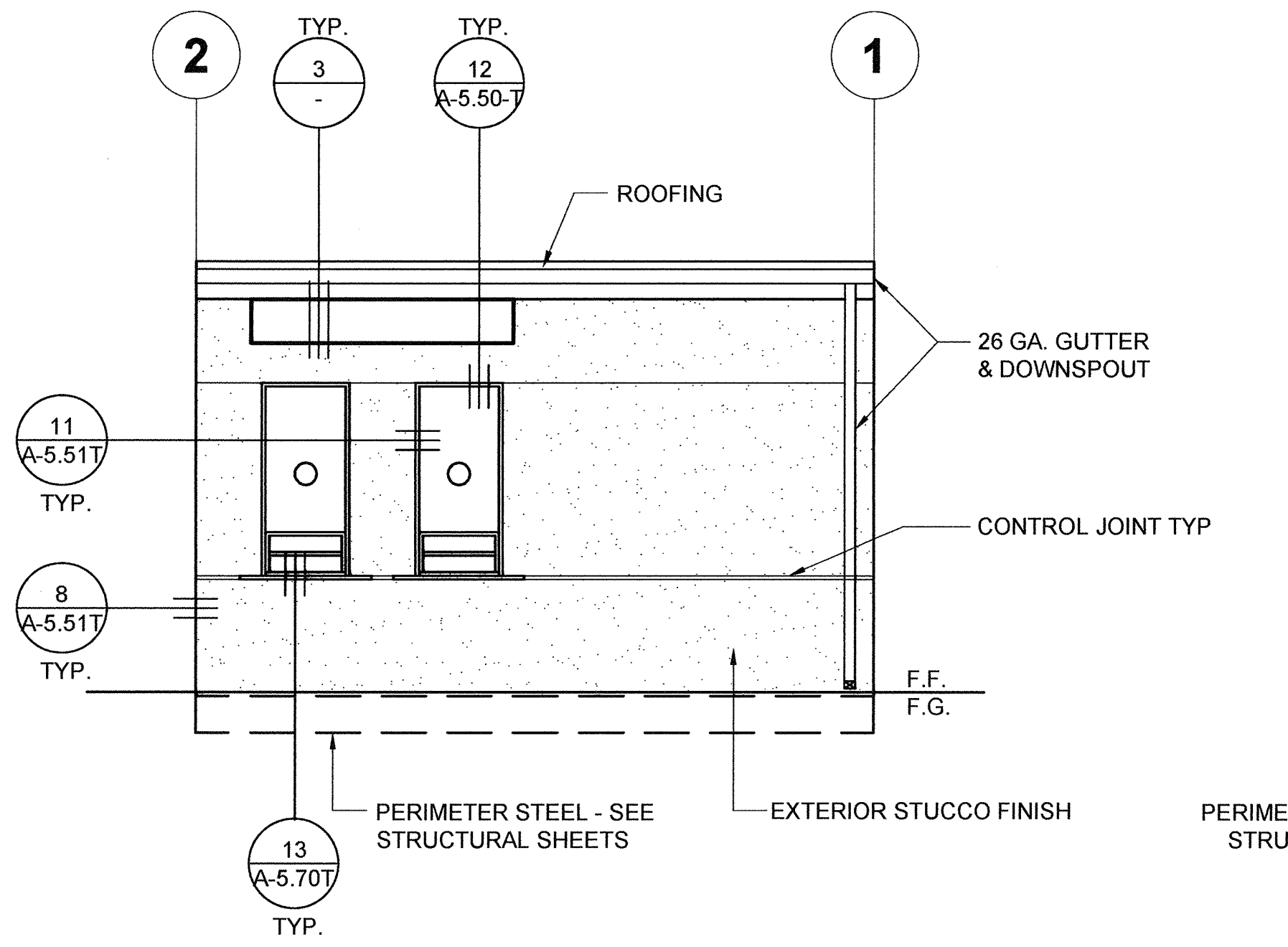
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

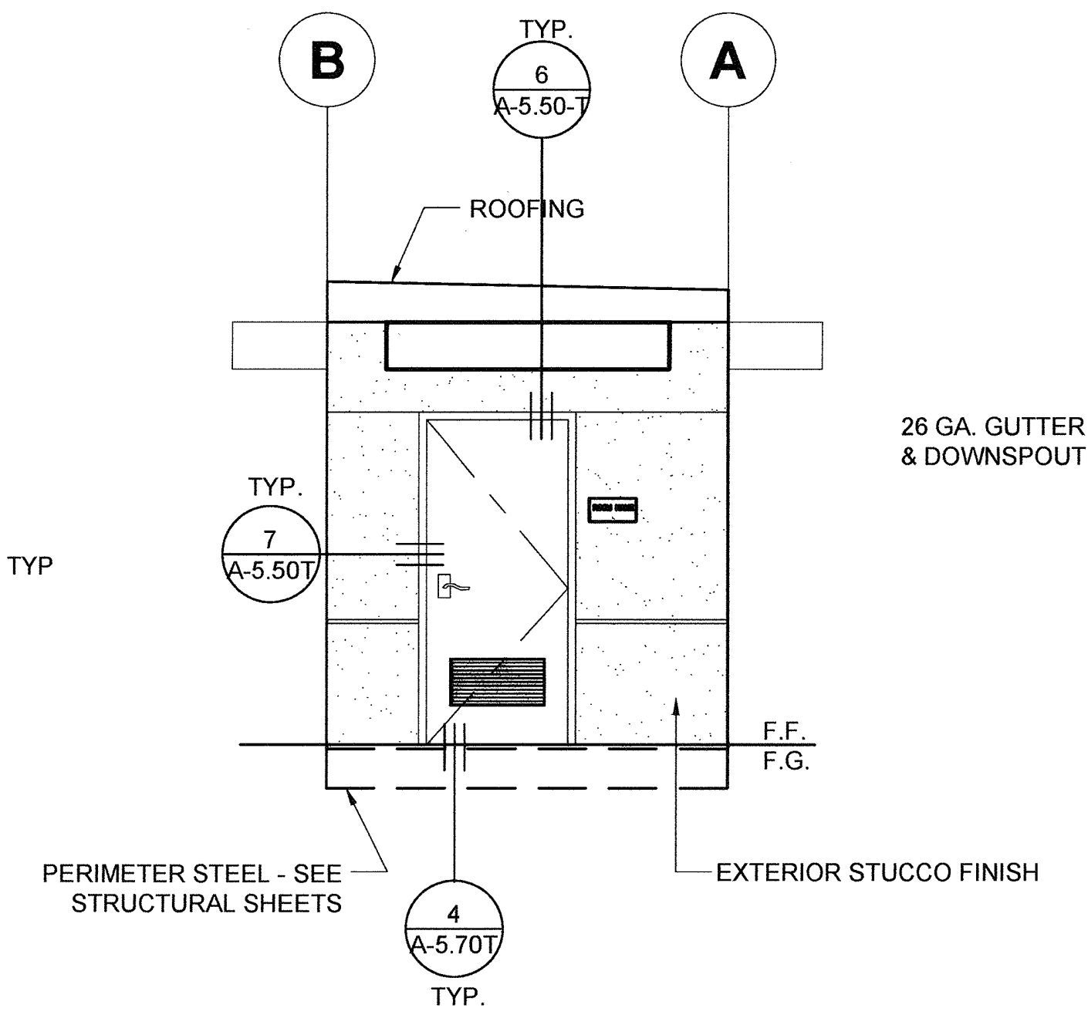
SHEET NUMBER
A-3.90-T



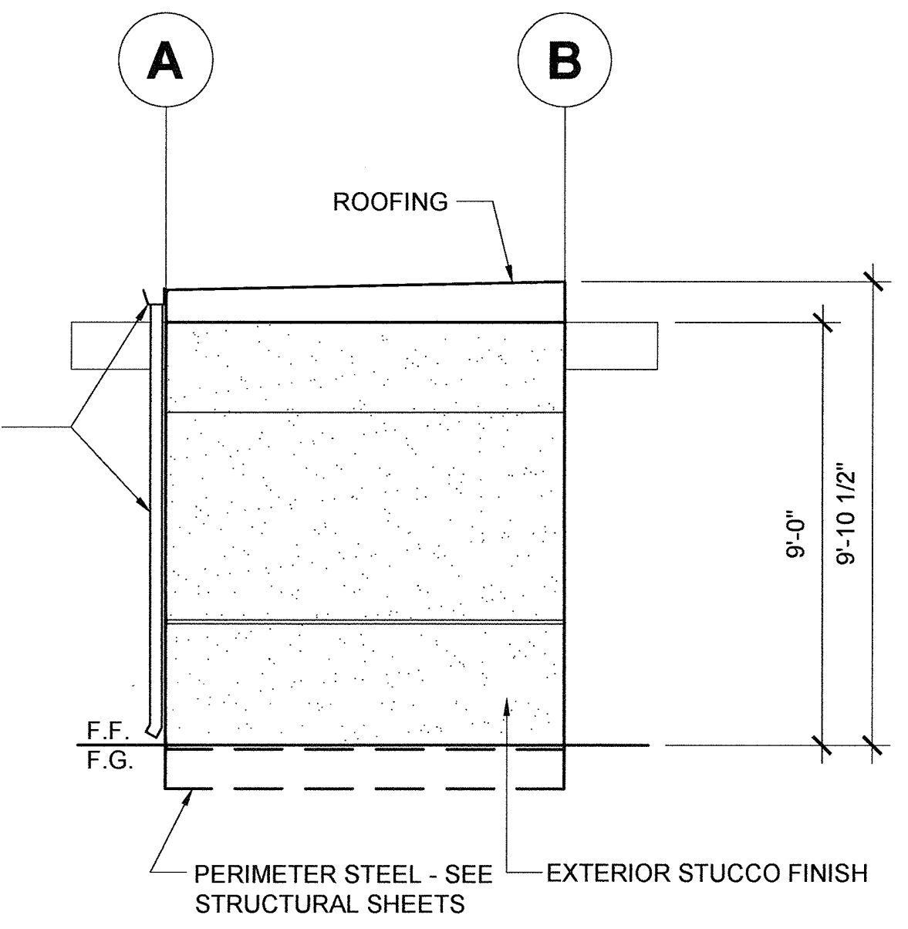
ELEVATION "A"



ELEVATION "B"



ELEVATION "C"


A
B
ROOFING
26 GA. GUTTER & DOWNSPOUT
9'-0"
9'-10 1/2"
F.F.
F.G.
PERIMETER STEEL - SEE STRUCTURAL SHEETS
EXTERIOR STUCCO FINISH

ELEVATION "D"

EXTERIOR ELEVATION (8'-6" X 15'-6")

SCALE:1/4" = 1'-0" 1

SIGNAGE LEGEND

A: RESTROOM WALL SIGN - SEE SHEET A-0.1
B: RESTROOM DOOR SIGN - SEE SHEET A-0.1
D: ROOM ID SIGN - SEE SHEET A-0.1

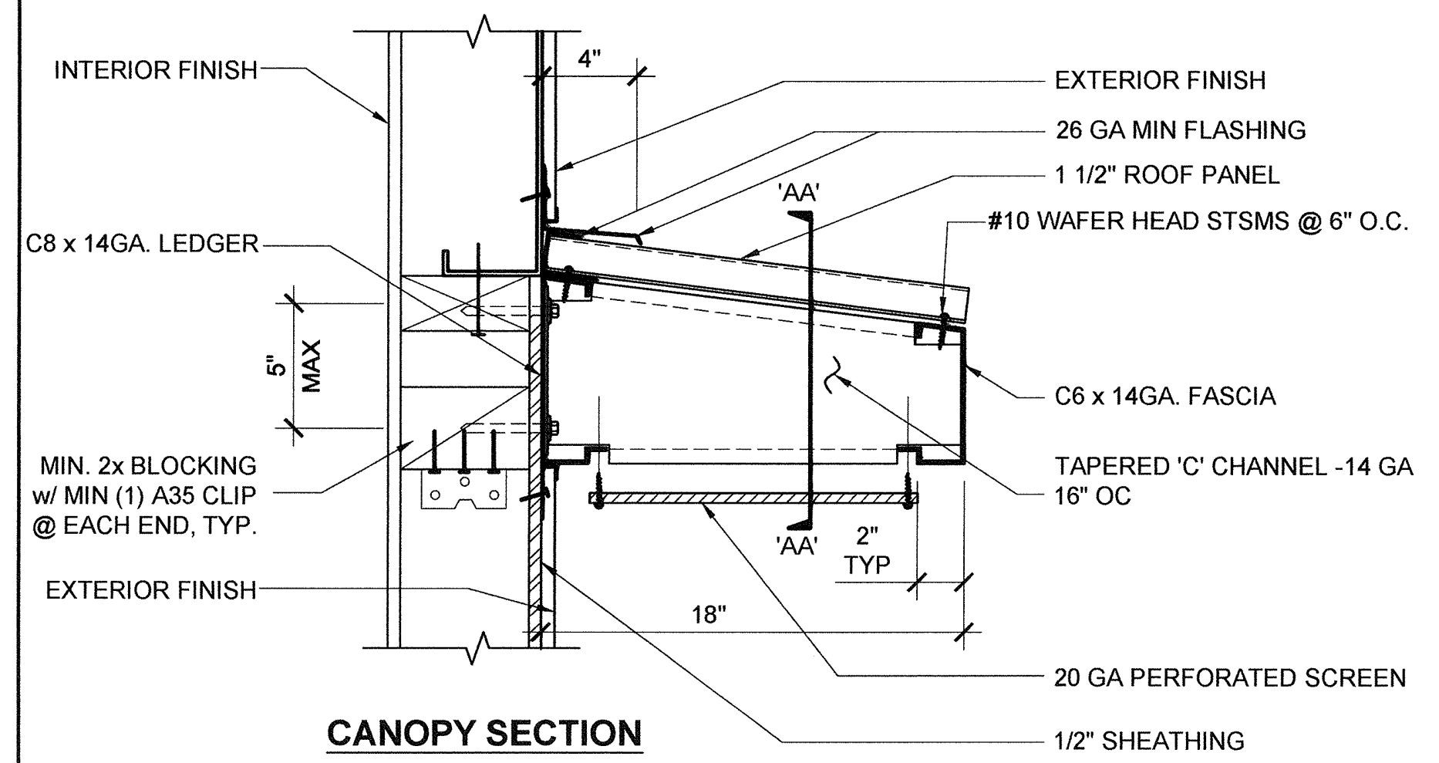
NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE, REFER TO IR 16-1 SECTION 2.1.

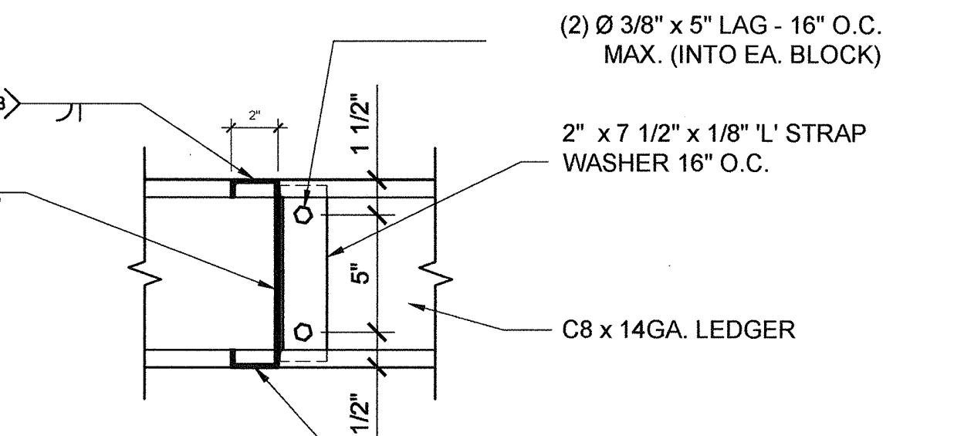
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME, SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, CLIMATE ZONE, WIND SPEED, EXPOSURE CATEGORY, Kzt = .0 2013 CBC

2. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET A-0.2 PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE #3/A-0.1 PROVIDED AND INSTALLED BY OTHERS ONSITE.

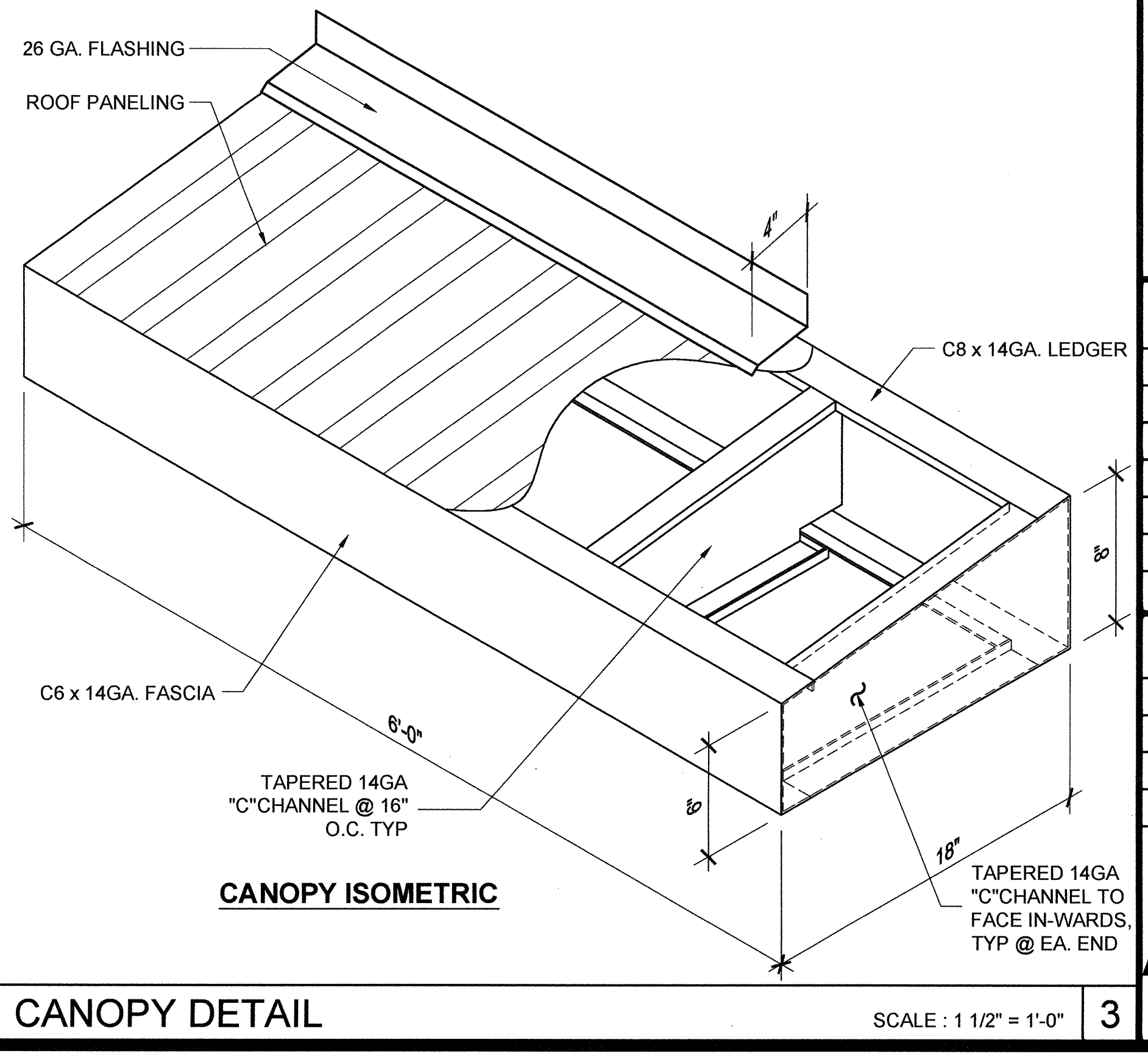
3. BUILDING SHOWN AS FLUSH WITH GRADE. FOR ABOVE GRADE SYSTEMS, REFER TO LANDING AND RAMP SHEETS FOR CLARITY.



CANOPY SECTION


(2) Ø 3/8" x 5" LAG - 16" O.C. MAX. (INTO EA. BLOCK)
T & B
2"
1 1/2"
WELD TO LEDGER CHANNEL
1/8" 1 1/2"
2" x 7 1/2" x 1/8" 'L' STRAP WASHER 16" O.C.
5"
C8 x 14GA. LEDGER
1 1/2"
TAPERED 14 GA 'C' CHANNEL @ 16" OC

'AA' SECTION


26 GA. FLASHING
ROOF PANELING
4"
C8 x 14GA. LEDGER
8"
C6 x 14GA. FASCIA
6'-0"
TAPERED 14GA "C"CHANNEL @ 16" O.C. TYP
8"
18"
TAPERED 14GA "C"CHANNEL TO FACE IN-WARDS, TYP @ EA. END

CANOPY ISOMETRIC

CANOPY DETAIL

SCALE : 1 1/2" = 1'-0" 3

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SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

EXTERIOR
ELEVATIONS
(STUCCO FINISH)

LICENSED ARCHITECT
JACK F. SHIVELY III
C-33467
REN 01-31-2017
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS CD SS
Date FEB 0 3 2017

REVISIONS

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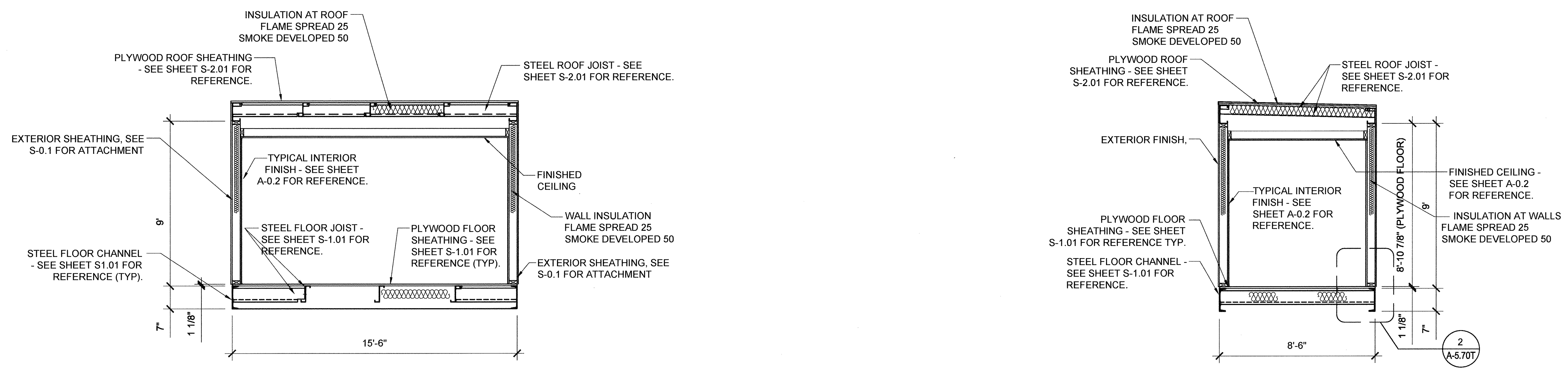
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER

A-4.02-T


INSULATION AT ROOF
FLAME SPREAD 25
SMOKE DEVELOPED 50
PLYWOOD ROOF SHEATHING - SEE SHEET S-2.01 FOR REFERENCE.
STEEL ROOF JOIST - SEE SHEET S-2.01 FOR REFERENCE.
EXTERIOR SHEATHING, SEE S-0.1 FOR ATTACHMENT
TYPICAL INTERIOR FINISH - SEE SHEET A-0.2 FOR REFERENCE.
FINISHED CEILING
WALL INSULATION
FLAME SPREAD 25
SMOKE DEVELOPED 50
STEEL FLOOR JOIST - SEE SHEET S-1.01 FOR REFERENCE.
PLYWOOD FLOOR SHEATHING - SEE SHEET S-1.01 FOR REFERENCE (TYP).
STEEL FLOOR CHANNEL - SEE SHEET S1.01 FOR REFERENCE (TYP).
EXTERIOR SHEATHING, SEE S-0.1 FOR ATTACHMENT
9'
7"
1 1/8"
15'-6"
INSULATION AT ROOF
FLAME SPREAD 25
SMOKE DEVELOPED 50
PLYWOOD ROOF SHEATHING - SEE SHEET S-2.01 FOR REFERENCE.
STEEL ROOF JOIST - SEE SHEET S-2.01 FOR REFERENCE.
EXTERIOR FINISH,
TYPICAL INTERIOR FINISH - SEE SHEET A-0.2 FOR REFERENCE.
FINISHED CEILING - SEE SHEET A-0.2 FOR REFERENCE.
INSULATION AT WALLS
FLAME SPREAD 25
SMOKE DEVELOPED 50
PLYWOOD FLOOR SHEATHING - SEE SHEET S-1.01 FOR REFERENCE TYP.
STEEL FLOOR CHANNEL - SEE SHEET S-1.01 FOR REFERENCE.
8'-10 7/8" (PLYWOOD FLOOR)
9'
1 1/8"
7"
8'-6"
2
A-5.70T

SIDEWALL BUILDING SECTIONS (8'-6"x15'-6") SCALE: 3/8" = 1'-0" 1

NOT USED 2

NOT USED 3

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SILVER
CREEK

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CROSS SECTION

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD

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A 03 117117
AC N.A. FLS EB SS
Date FEB 0 3 2017

REVISIONS

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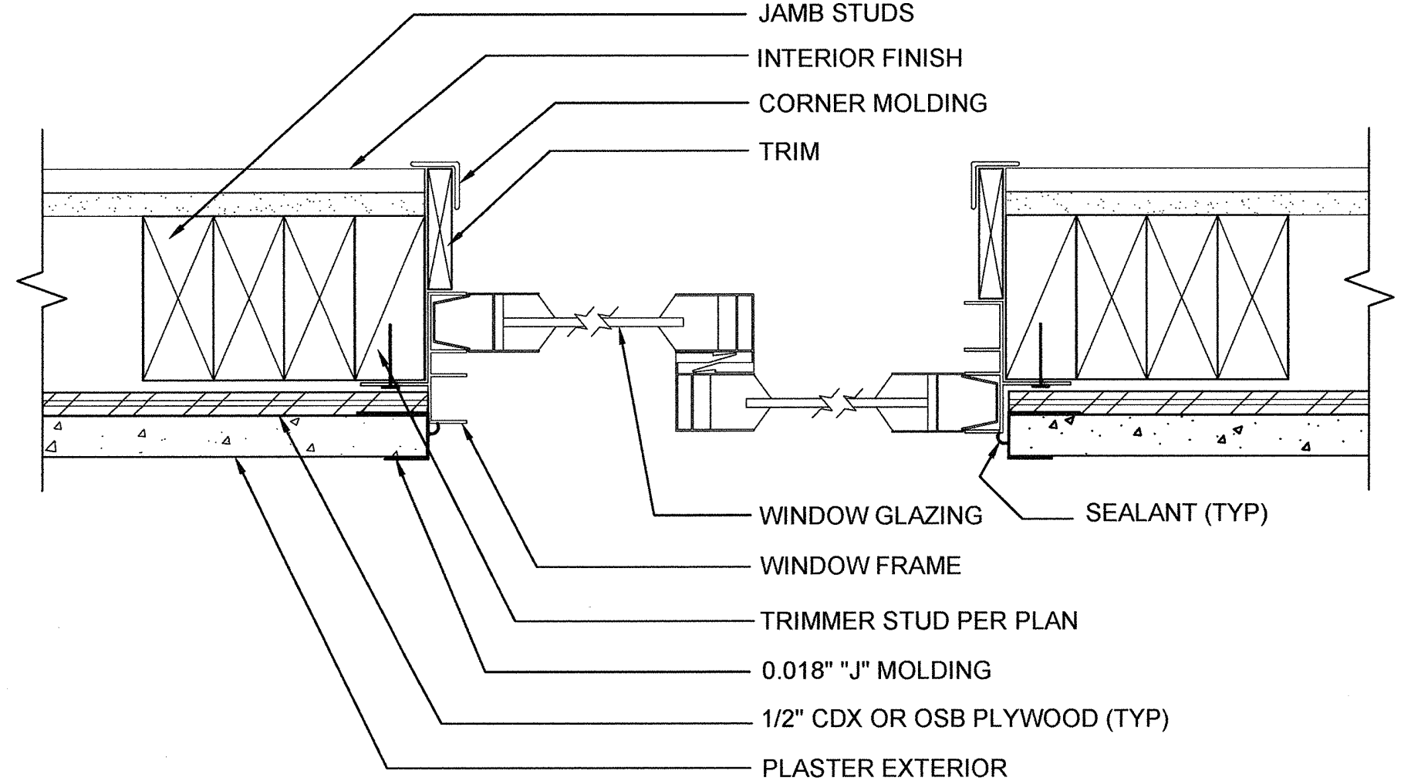
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

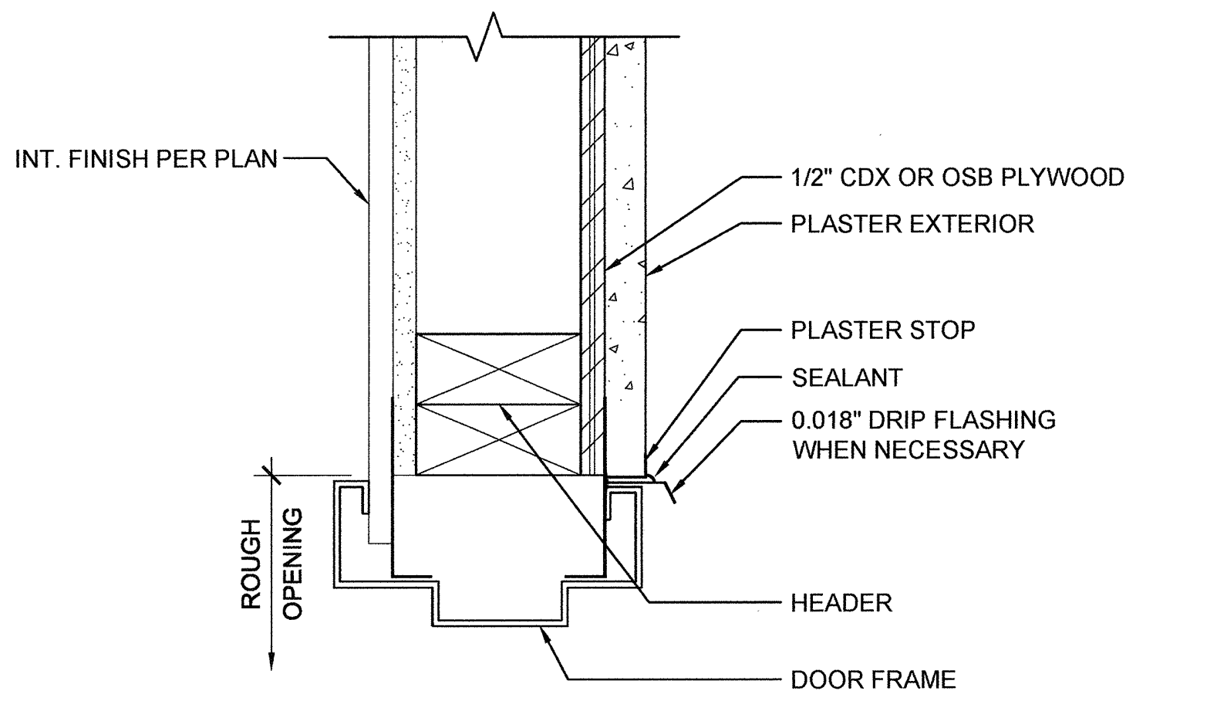
SHEET NUMBER

A-.5.01-T

NOT USED 16



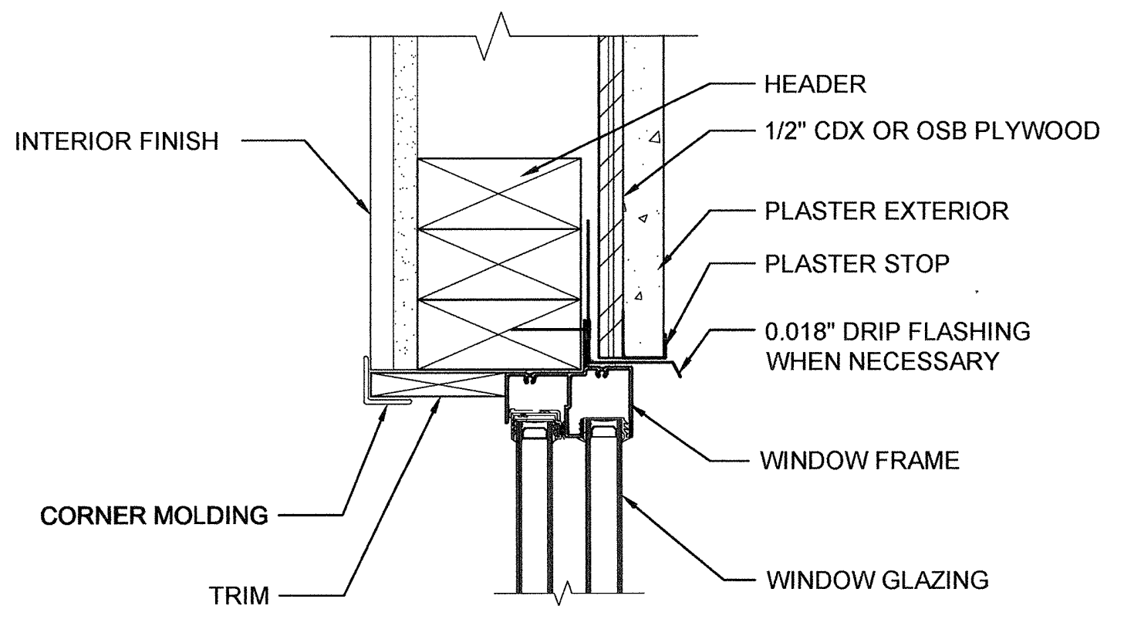
WINDOW SECTION AT JAMBS SCALE : 3"=1'-0" 11



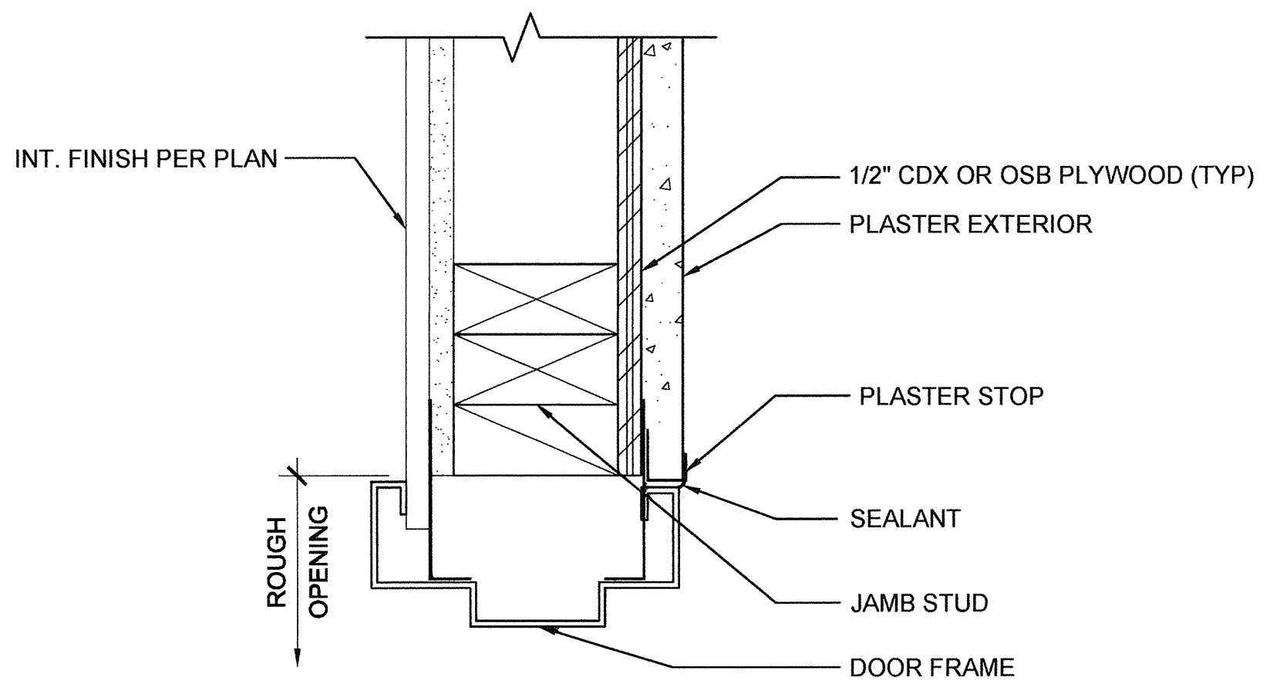
EXTERIOR DOOR HEADER SCALE : 3"=1'-0" 6

NOT USED 1

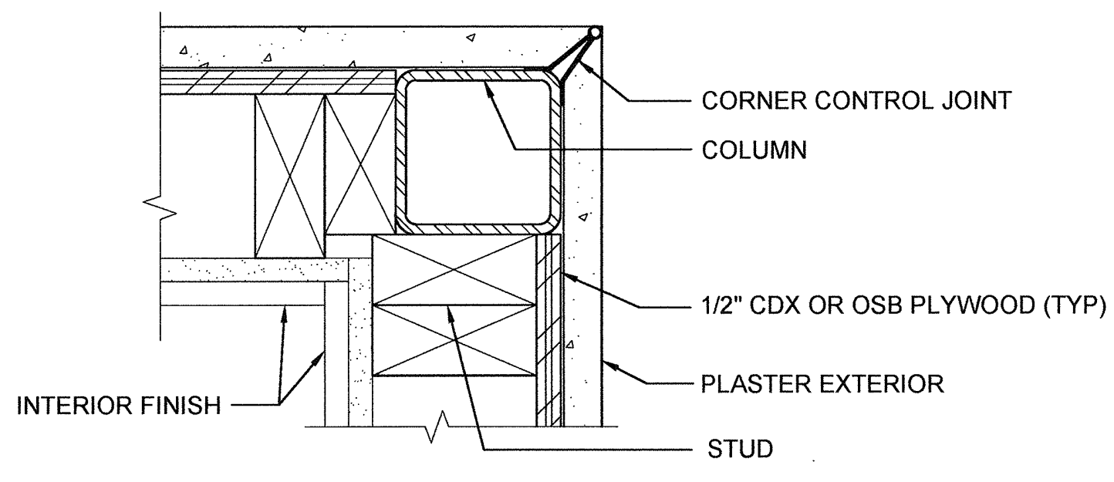
NOT USED 17



WINDOW HEADER SCALE : 3"=1'-0" 12



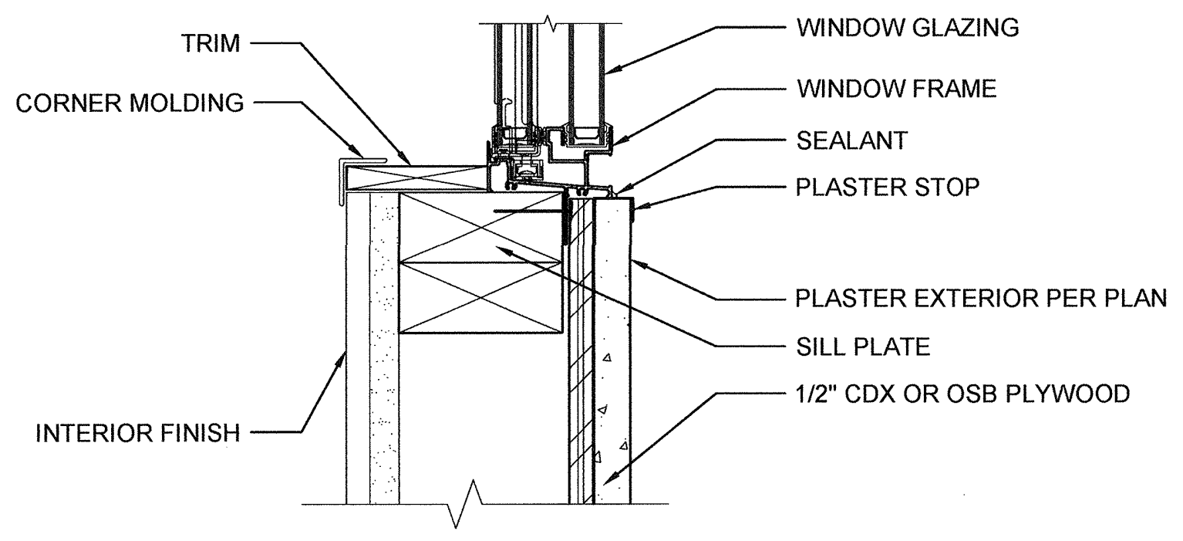
EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 7



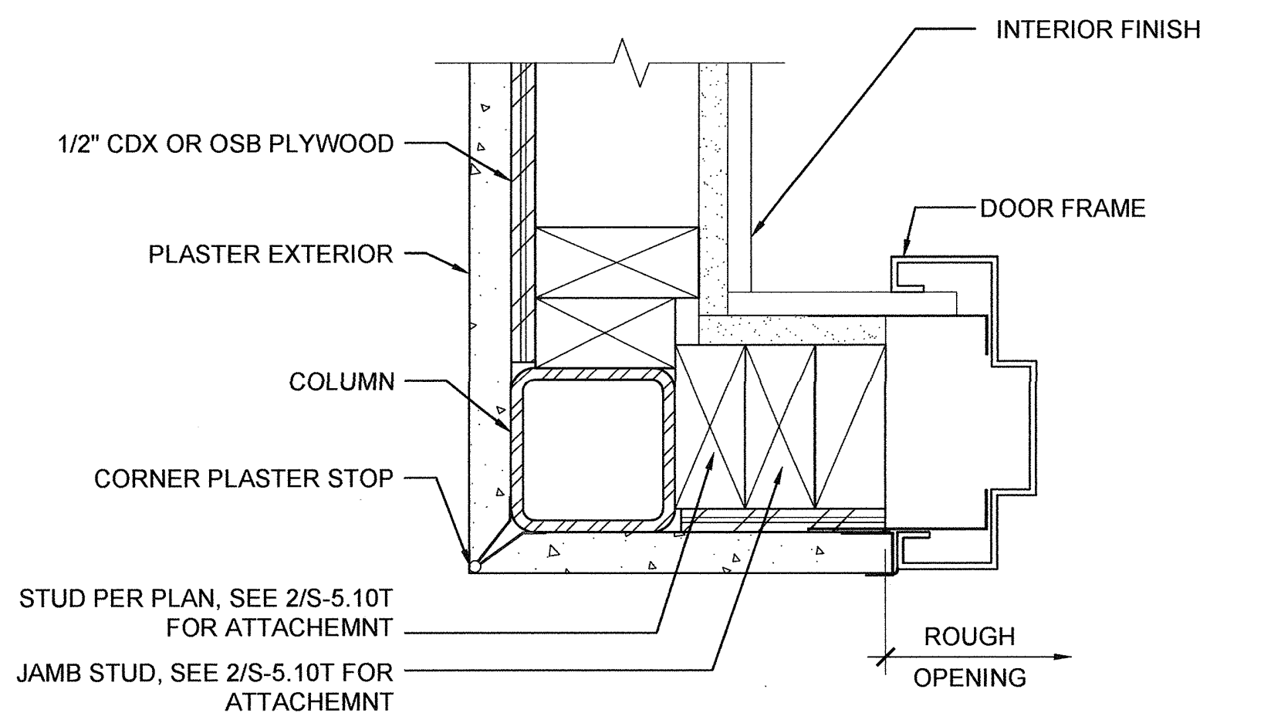
SEE 8/- FOR ADDITIONAL INFO

COLUMN AT CORNER SCALE : 3"=1'-0" 2

NOT USED 18



WINDOW SILL SCALE : 3"=1'-0" 13



EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 8

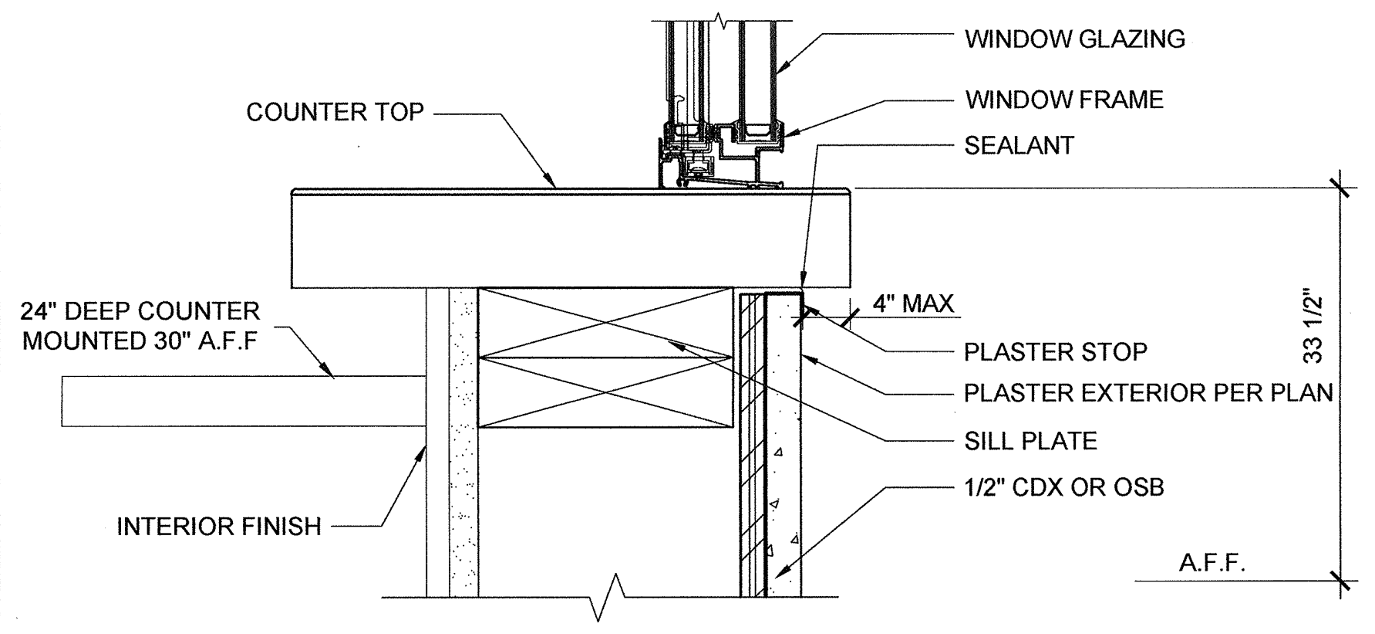
NOT USED 3

NOT USED 19

NOT USED 14

NOT USED 9

NOT USED 4



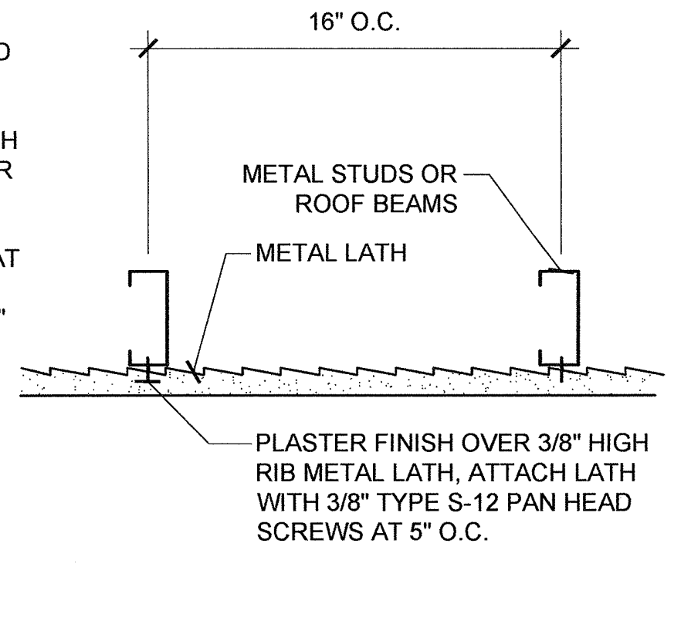
TICKET WINDOW SILL SCALE : 3"=1'-0" 20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

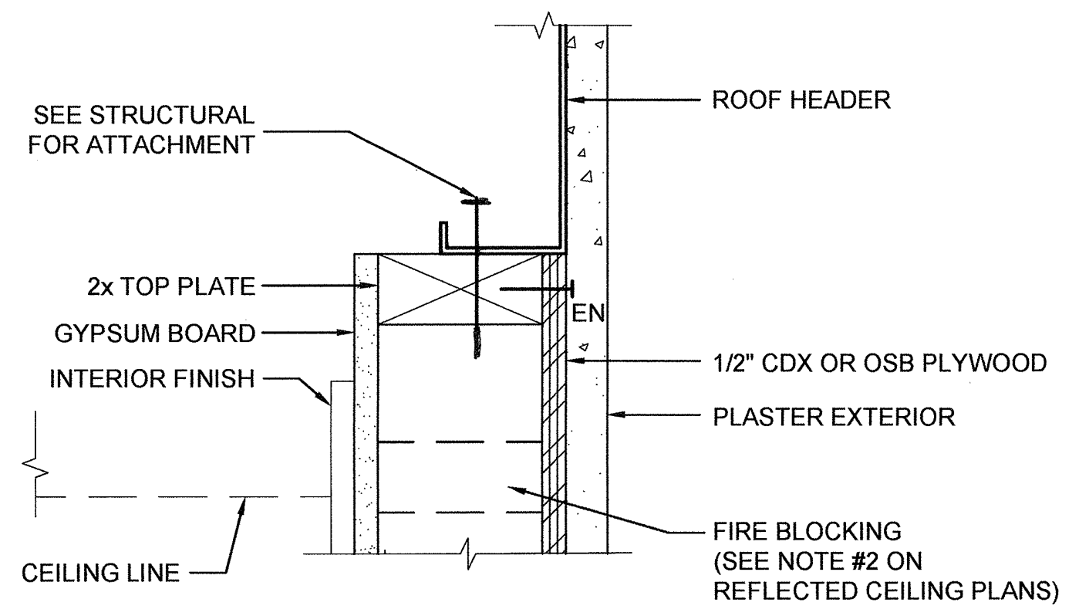
3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.


16" O.C.
METAL STUDS OR ROOF BEAMS
METAL LATH
PLASTER FINISH OVER 3/8" HIGH RIB METAL LATH, ATTACH LATH WITH 3/8" TYPE S-12 PAN HEAD SCREWS AT 5" O.C.

METAL LATH ATTACHMENT TO METAL JOIST SCALE : NTS 15

NOT USED 10



TOP PLATE AT ROOF HEADER SCALE : 3" = 1'-0" 5

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SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 03 2017

REVISIONS

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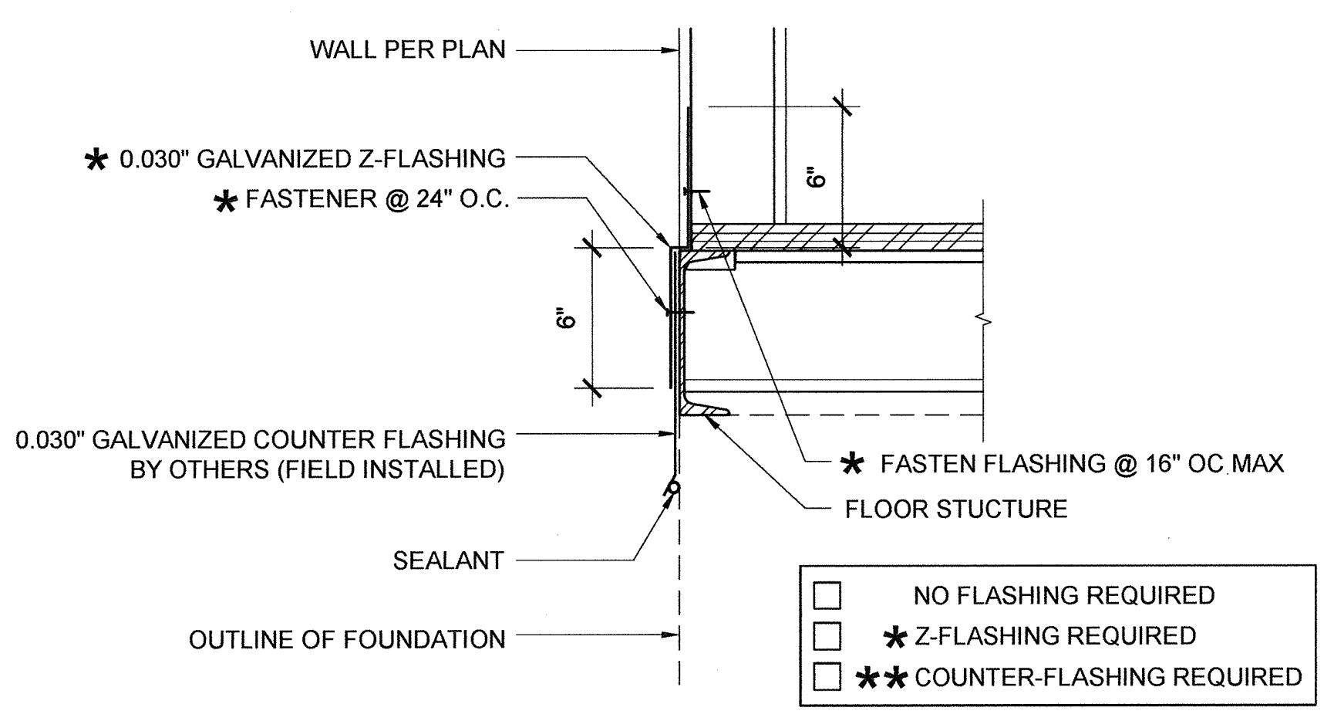
PROJECT NO:	
DRAWN BY:	FIL CARRILLO
SCALE:	AS NOTED
DATE:	02/04/2015

SHEET NUMBER

A-5.51-T

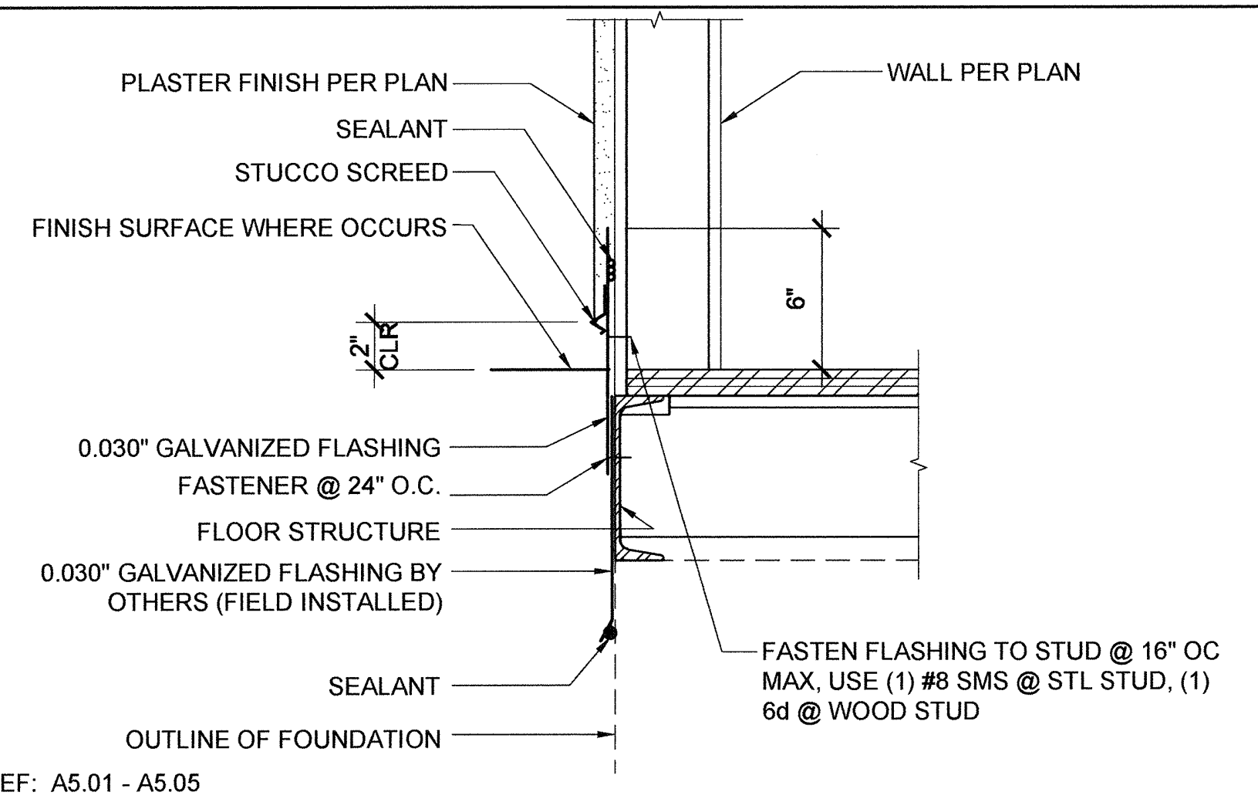

WALL PER PLAN
★ 0.030" GALVANIZED Z-FLASHING
★ FASTENER @ 24" O.C.
6"
6"
★★ 0.030" GALVANIZED COUNTER FLASHING BY OTHERS (FIELD INSTALLED)
★ FASTEN FLASHING @ 16" OC MAX
FLOOR STUCTURE
SEALANT
OUTLINE OF FOUNDATION

☐ NO FLASHING REQUIRED
☐ ★ Z-FLASHING REQUIRED
☐ ★★ COUNTER-FLASHING REQUIRED

REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR)

SCALE : 1 1/2"=1'-0" | 1


PLASTER FINISH PER PLAN
SEALANT
STUCCO SCREED
FINISH SURFACE WHERE OCCURS
WALL PER PLAN
6"
2" CLR
0.030" GALVANIZED FLASHING
FASTENER @ 24" O.C.
FLOOR STRUCTURE
0.030" GALVANIZED FLASHING BY OTHERS (FIELD INSTALLED)
SEALANT
OUTLINE OF FOUNDATION
FASTEN FLASHING TO STUD @ 16" OC MAX, USE (1) #8 SMS @ STL STUD, (1) 6d @ WOOD STUD

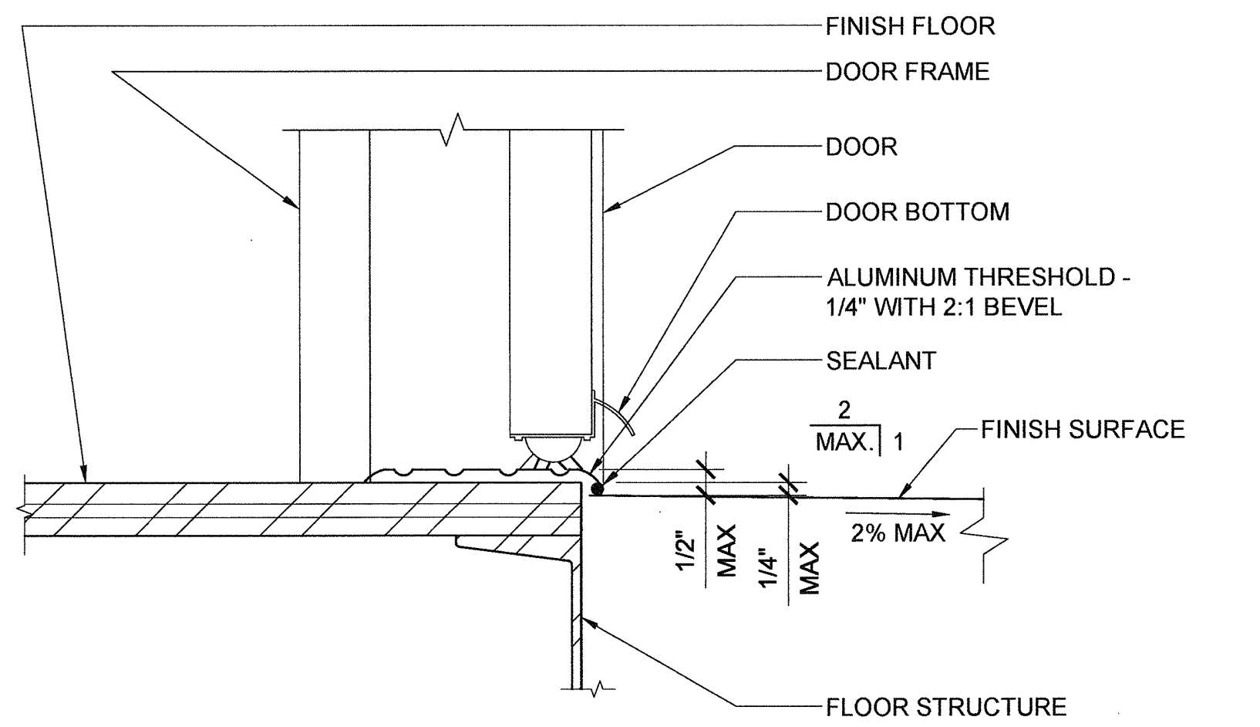
REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR)

SCALE : 1 1/2"=1'-0" | 2

NOT USED

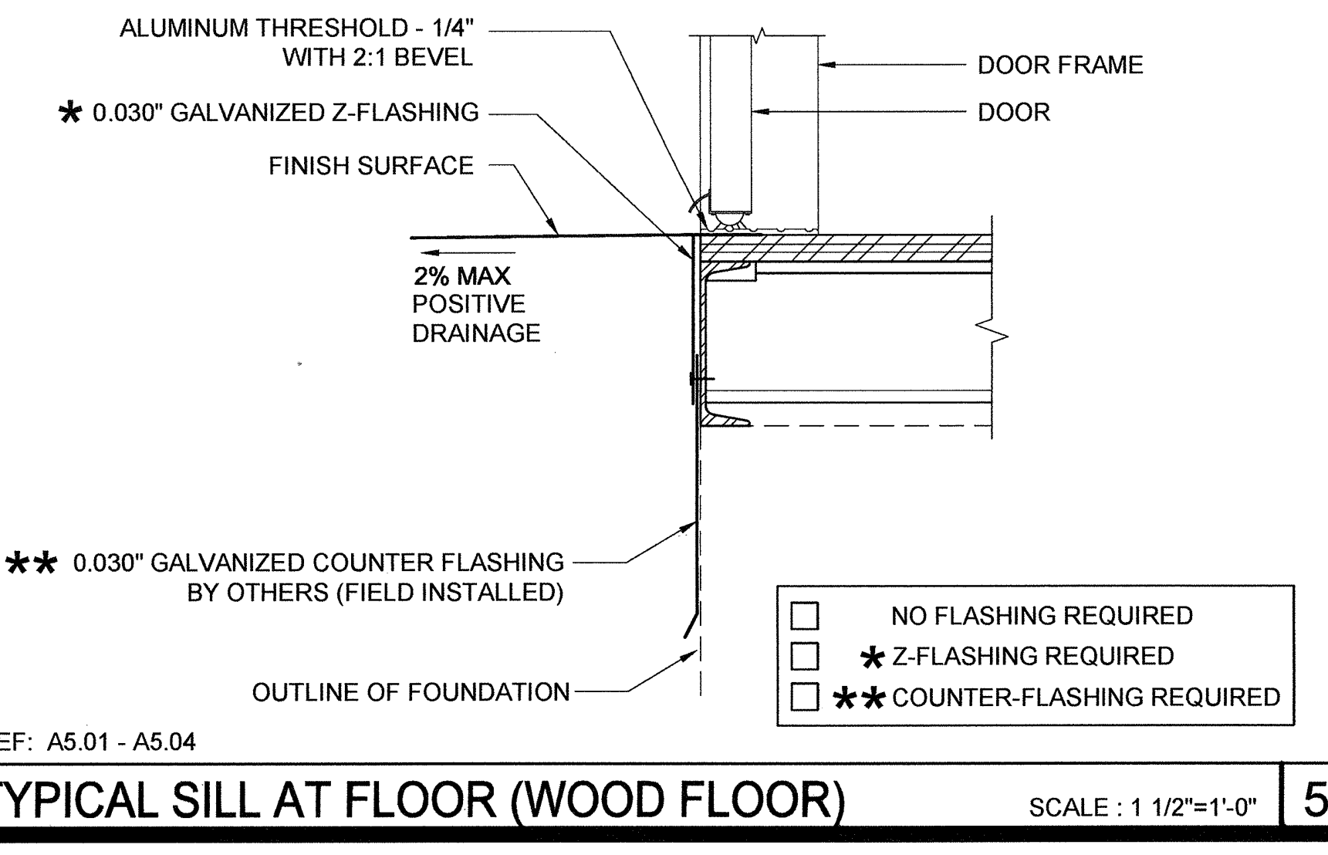
3



REF: A5.01 - A5.04

THRESHOLD

SCALE : 3"=1'-0" | 4


ALUMINUM THRESHOLD - 1/4" WITH 2:1 BEVEL
★ 0.030" GALVANIZED Z-FLASHING
FINISH SURFACE
DOOR FRAME
DOOR
2% MAX POSITIVE DRAINAGE
★★ 0.030" GALVANIZED COUNTER FLASHING BY OTHERS (FIELD INSTALLED)
OUTLINE OF FOUNDATION

☐ NO FLASHING REQUIRED
☐ ★ Z-FLASHING REQUIRED
☐ ★★ COUNTER-FLASHING REQUIRED

REF: A5.01 - A5.04

TYPICAL SILL AT FLOOR (WOOD FLOOR)

SCALE : 1 1/2"=1'-0" | 5

6 | NOT USED

7 | NOT USED

8 | NOT USED

9 | NOT USED

10 | NOT USED

11 | NOT USED

12 | NOT USED

13 | NOT USED

14 | NOT USED

15 | NOT USED

16 | NOT USED

17 | NOT USED

18 | NOT USED

19 | NOT USED

20 | NOT USED

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CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
FLOOR

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS 65 SS
Date FEB 0 3 2017

REVISIONS

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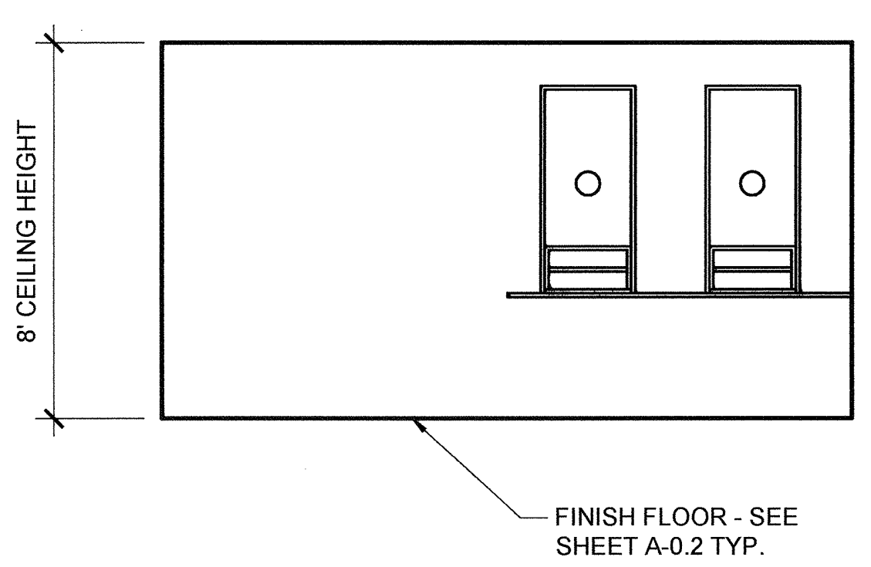
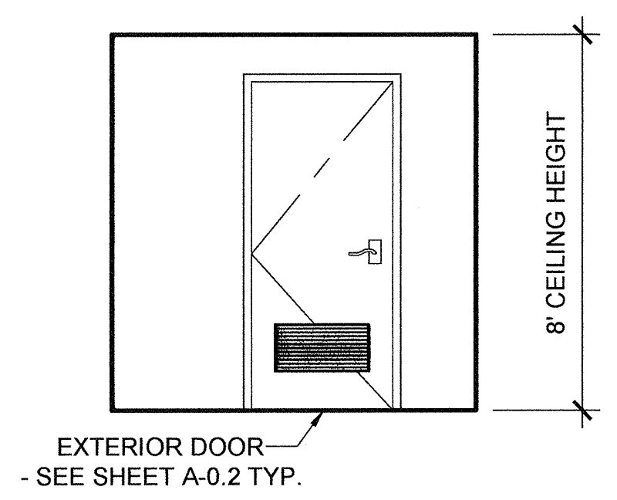
PROJECT NO:	
DRAWN BY:	FIL CARRILLO
SCALE:	AS NOTED
DATE:	02/04/2015

SHEET NUMBER

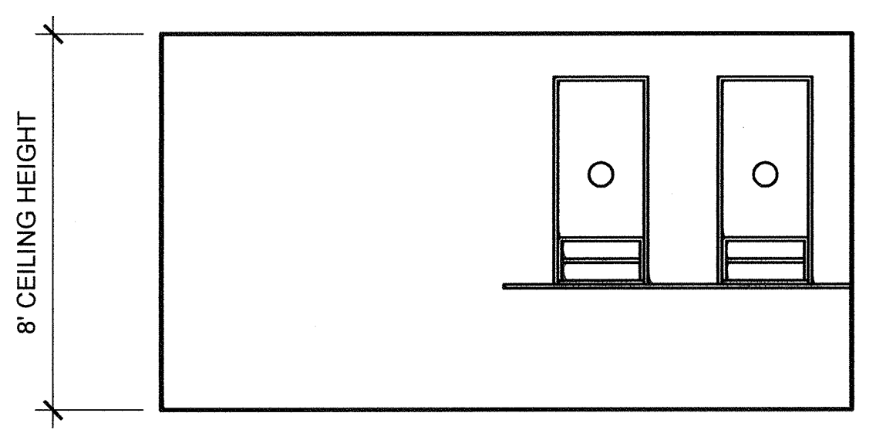
A-5.70-T



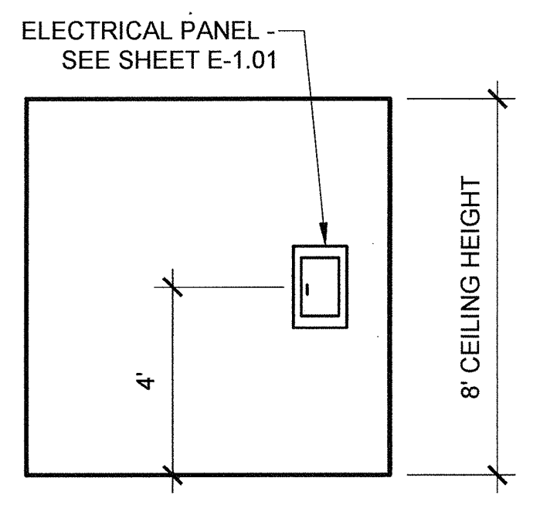
ELEVATION "1"



ELEVATION "2"



ELEVATION "3"



ELEVATION "4"

INTERIOR ELEVATIONS (8'-6" X 15'-6")

SCALE:1/4" = 1'-0"

NOTES

1. SEE SHEET P-2.01 FOR ACCESSIBILITY DETAILS AND ACCESSORY DIMENSIONS.
2. WALL MOUNT WATER CLOSETS SHOWN AS STANDARD APPLICATION. SEE SHEET P-2.01 FOR PRECISE FIXTURE TYPE.
3. PRECISE FIXTURE HEIGHTS AND TOILET ACCESSORIES SHOWN ON SHEET P-2.01.
4. 4" MAX PROJECTION IF BOTTOM OF OBJECT HEIGHT FROM FINISH FLOOR IS MORE THAN 27".

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INTERIOR
ELEVATIONS

C-33467
REN 01-31-2017

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AC N.A. FLS BB SS
Date FEB 03 2017

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PROJECT NO:	
DRAWN BY:	FIL CARRILLO
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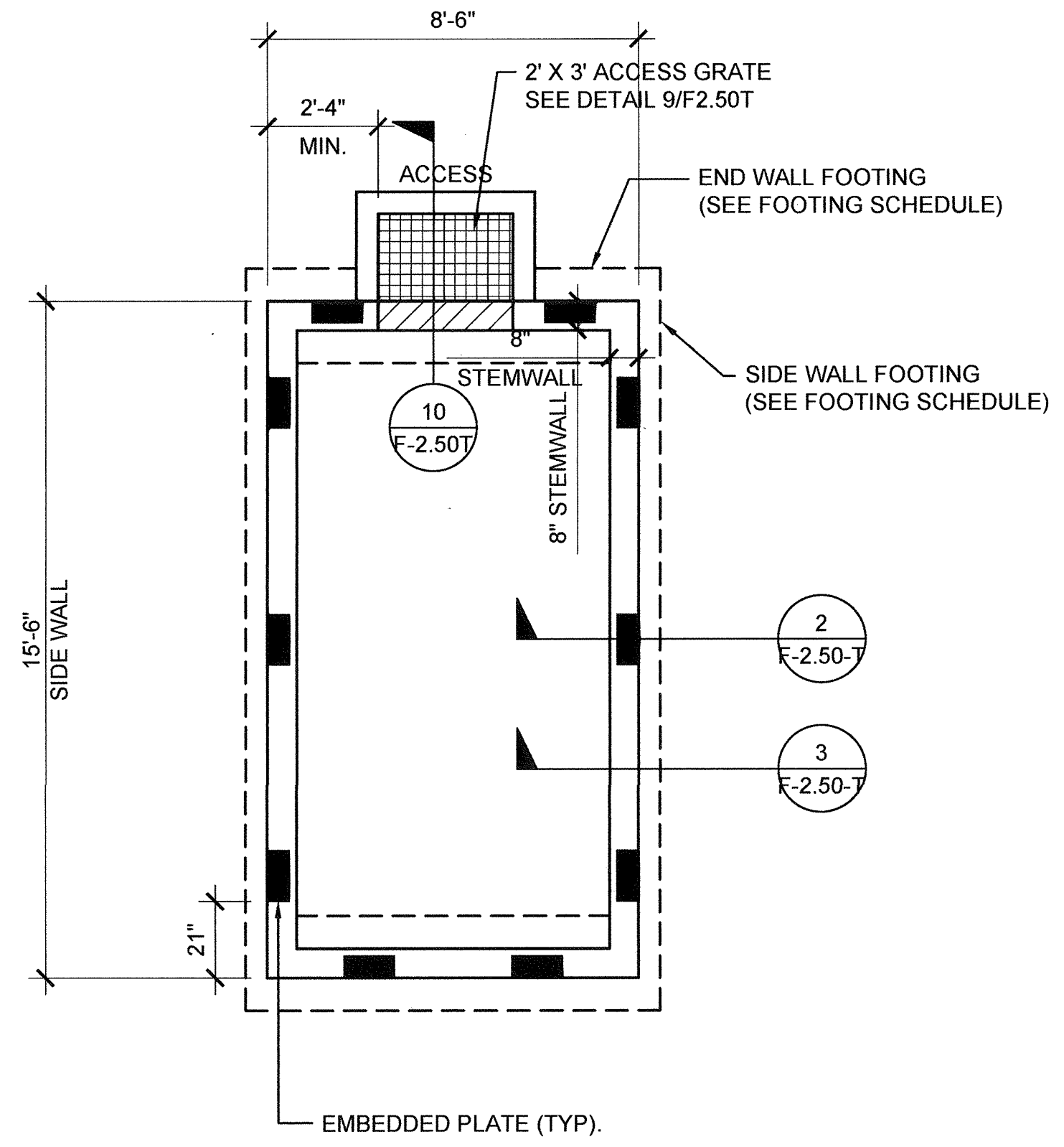

NOTE:
SEE 10/F-2.51T & 2/S-1.50T
FOR FLOOR TO
FOUNDATION ATTACHMENT

8'-6" x 15'-6" FOUNDATION PLAN

SCALE: 1/4" = 1' - 0"

VENTING SCHEDULE

VENT "C" : (4'-0" x 8" GALVANIZED METAL SCREEN COVER)
2'-0" x 5" = 0.83 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

VENTING CALCULATION:

8'-6" x 15'-6" BUILDING: 8'-6" x 15'-6" = 131.75 SF / 150 = 0.88 SF VENT. REQ'D

D

1 - "D" ACCESS VENT = 4.25 SF
4.25 SF TOTAL VENTILATION

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	
50 PSF	12" WIDE (2) #5 CONT T & B	12" WIDE (2) #5 CONT T & B	

NOTES

1. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.3.2(2).
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (> 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); ATTACH VAPOR RETARDER TO BOTTOM PLATES; SEAL TO ALL PIERS AND OTHER PENETRATIONS.

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE: CONCRETE
FOUNDATION PLAN
BELOW GRADE CONC.

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3350
STRUCTURAL
STATE OF CALIFORNIA
Manny D. Frisch
RST#15008
01/23/2017

ARCHITECT OF RECORD

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PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
F-2.01

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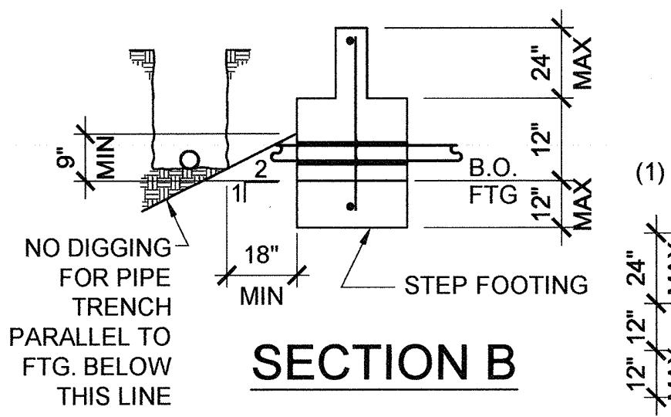
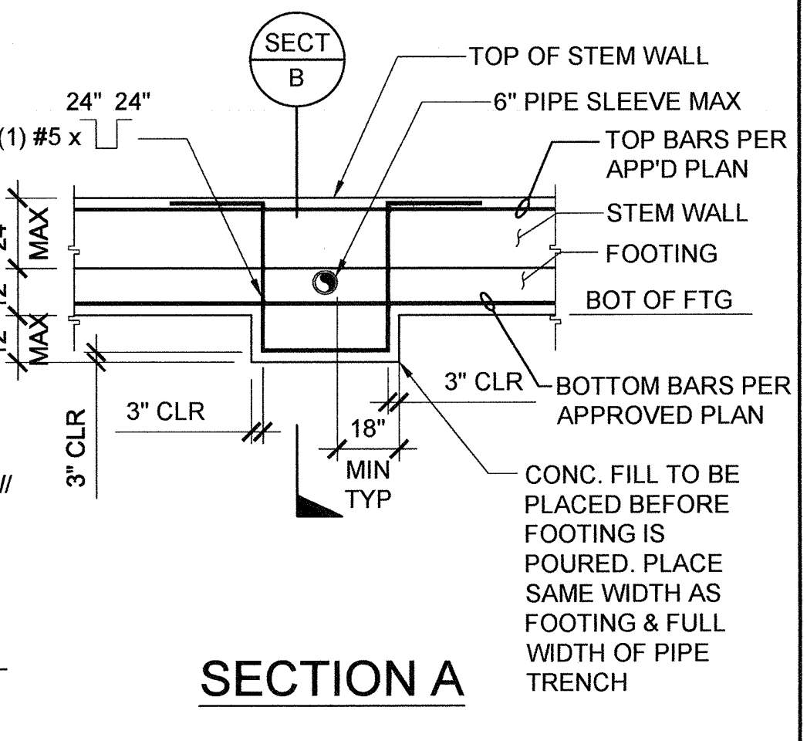


SECTION B

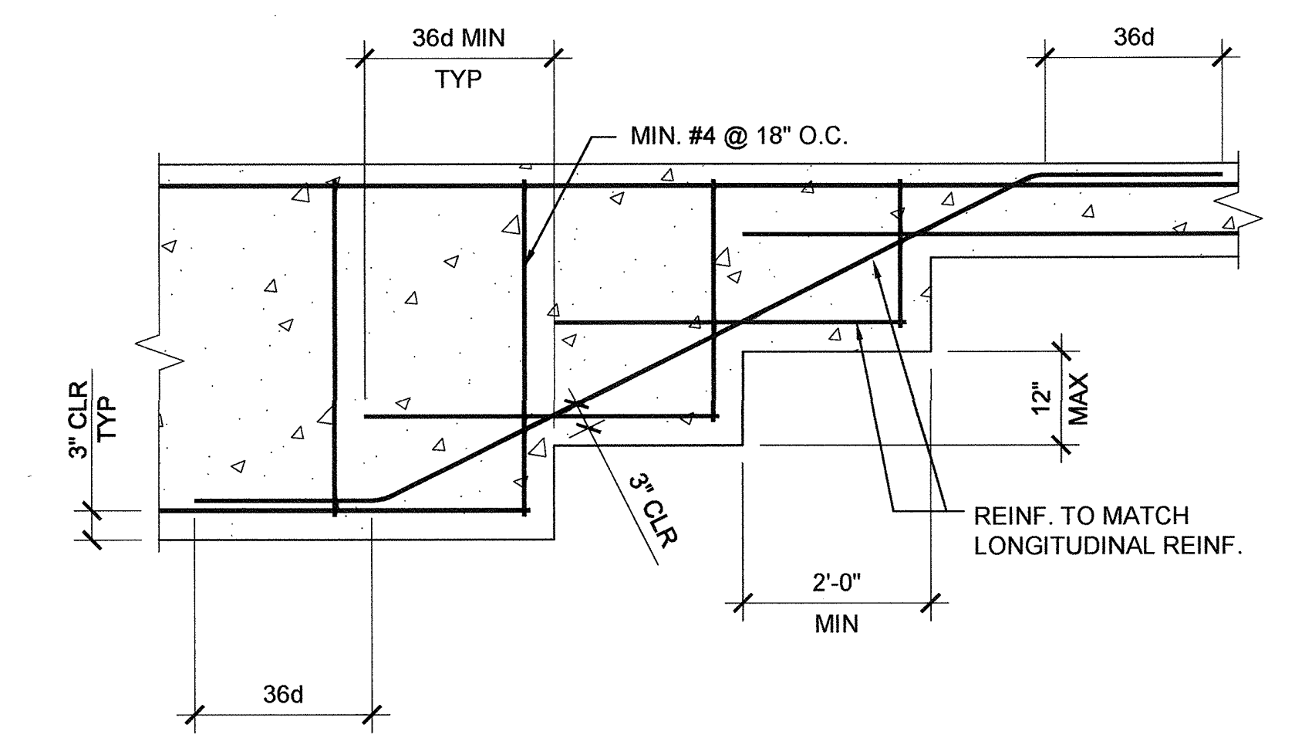
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES

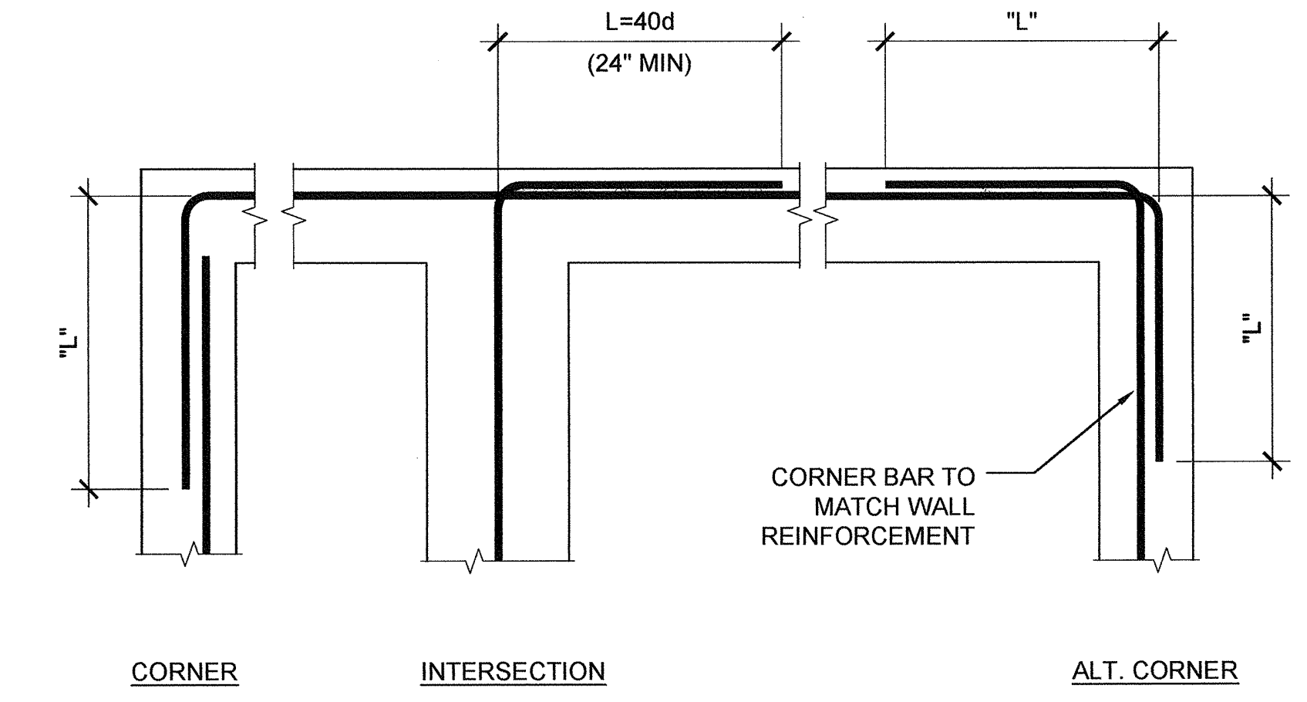


SECTION A

PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17



TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18



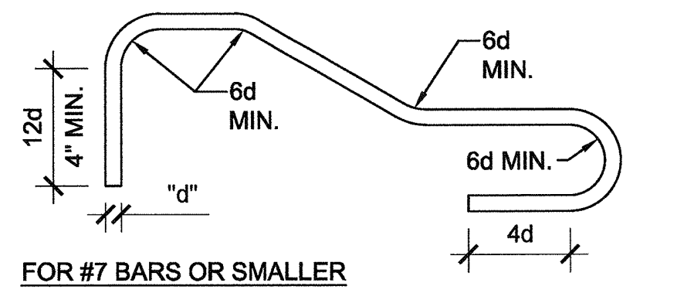
TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19

STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[(a)]
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

(a) MEASURED ON INSIDE OF BAR

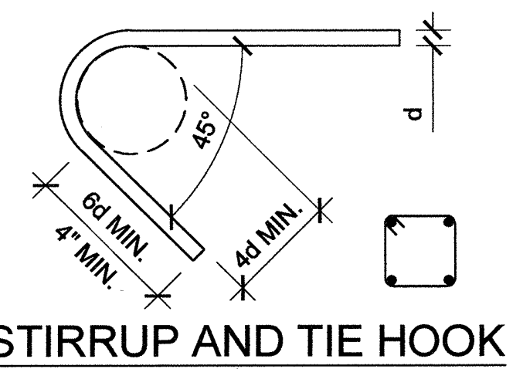
STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[(b)]
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

(b) MEASURED ON INSIDE OF BAR

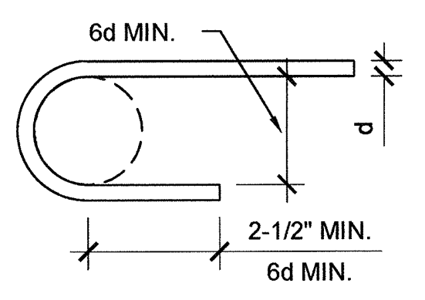


FOR #7 BARS OR SMALLER

TYP. REINF. BENDING DETAIL



STIRRUP AND TIE HOOK



STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

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NOT USED 12

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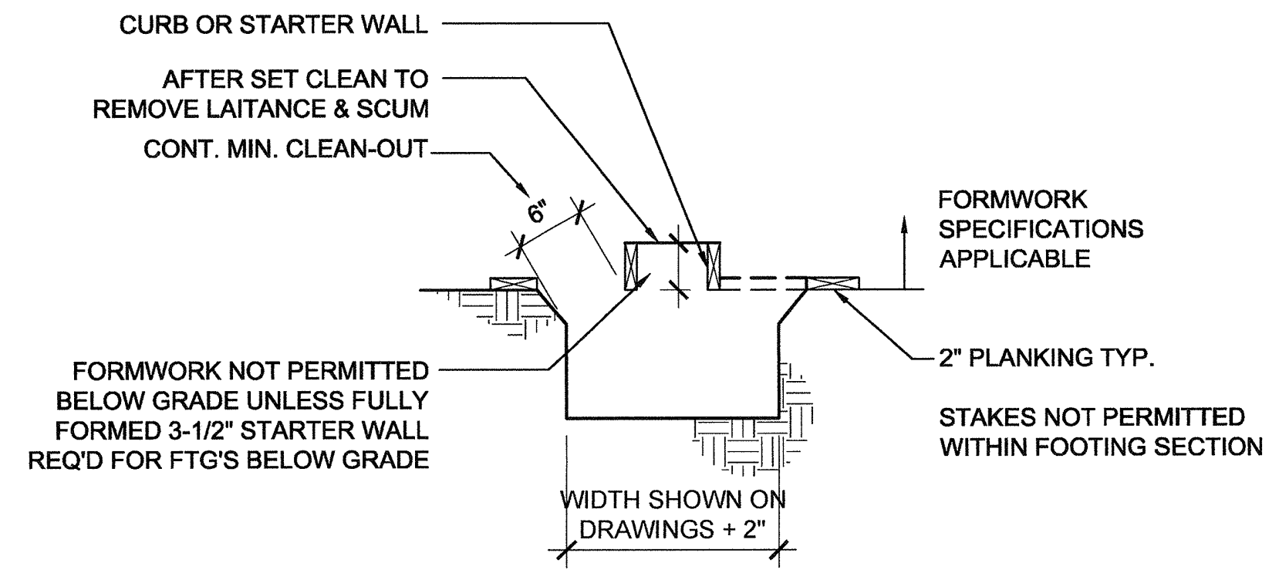
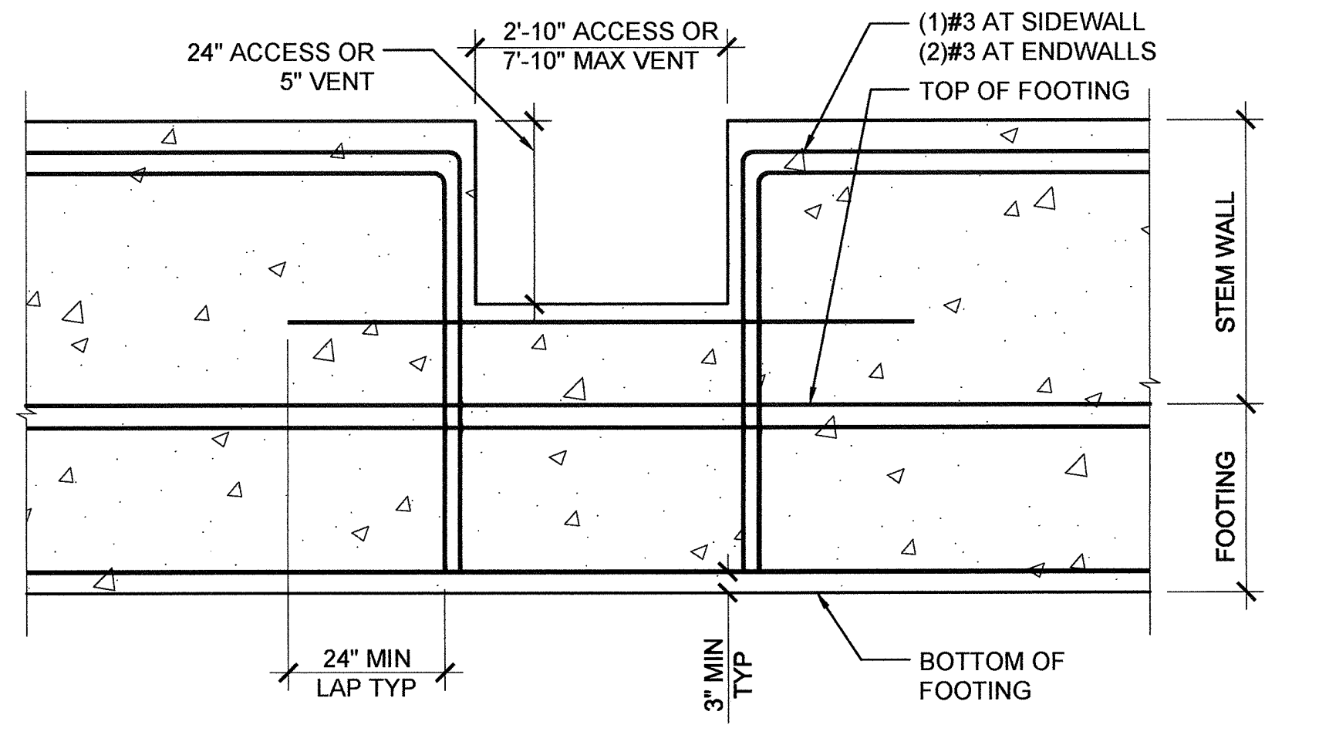

CURB OR STARTER WALL
AFTER SET CLEAN TO REMOVE LAITANCE & SCUM
CONT. MIN. CLEAN-OUT
6"
FORMWORK SPECIFICATIONS APPLICABLE
2" PLANKING TYP.
STAKES NOT PERMITTED WITHIN FOOTING SECTION
FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED 3-1/2" STARTER WALL REQ'D FOR FTG'S BELOW GRADE
WIDTH SHOWN ON DRAWINGS + 2"

"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14



VENT OPENING SCALE : 1" = 1'-0" 15

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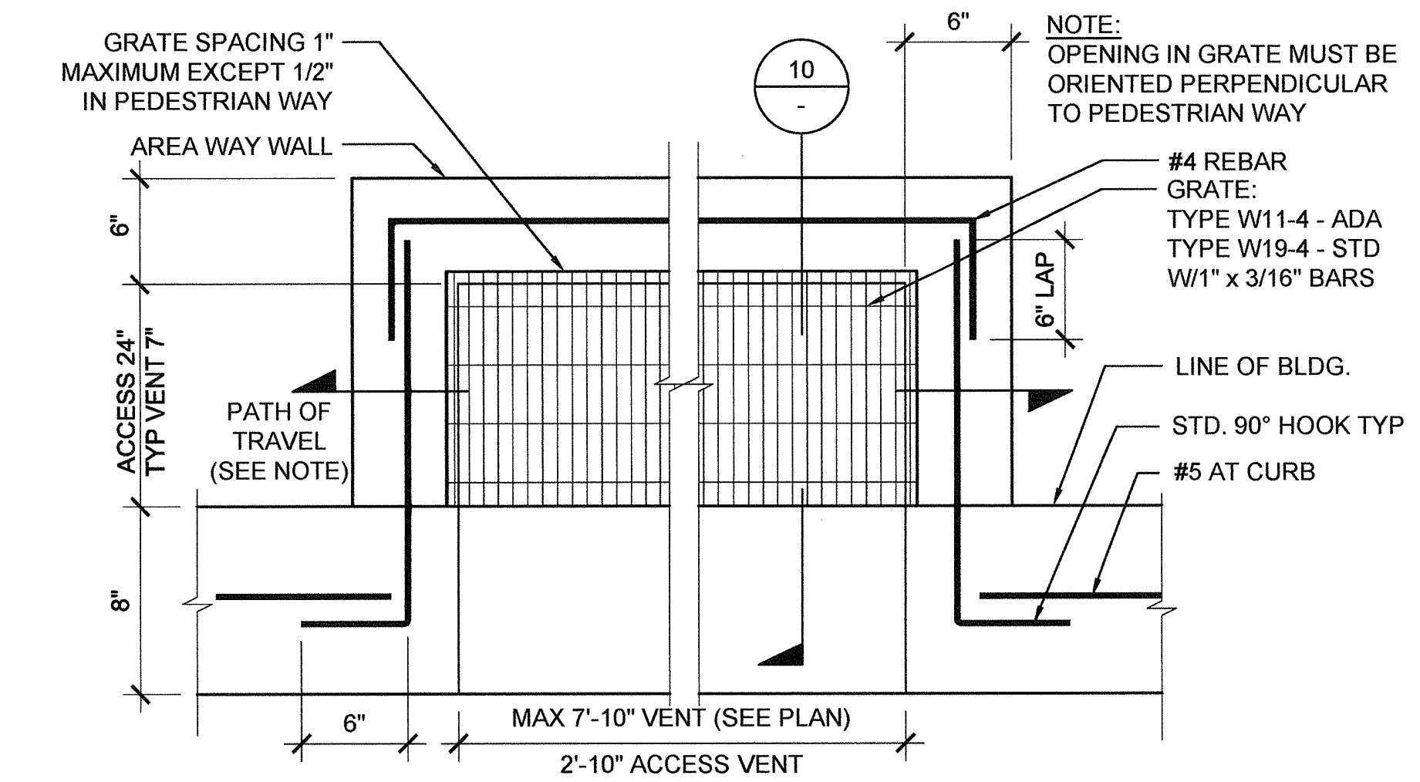
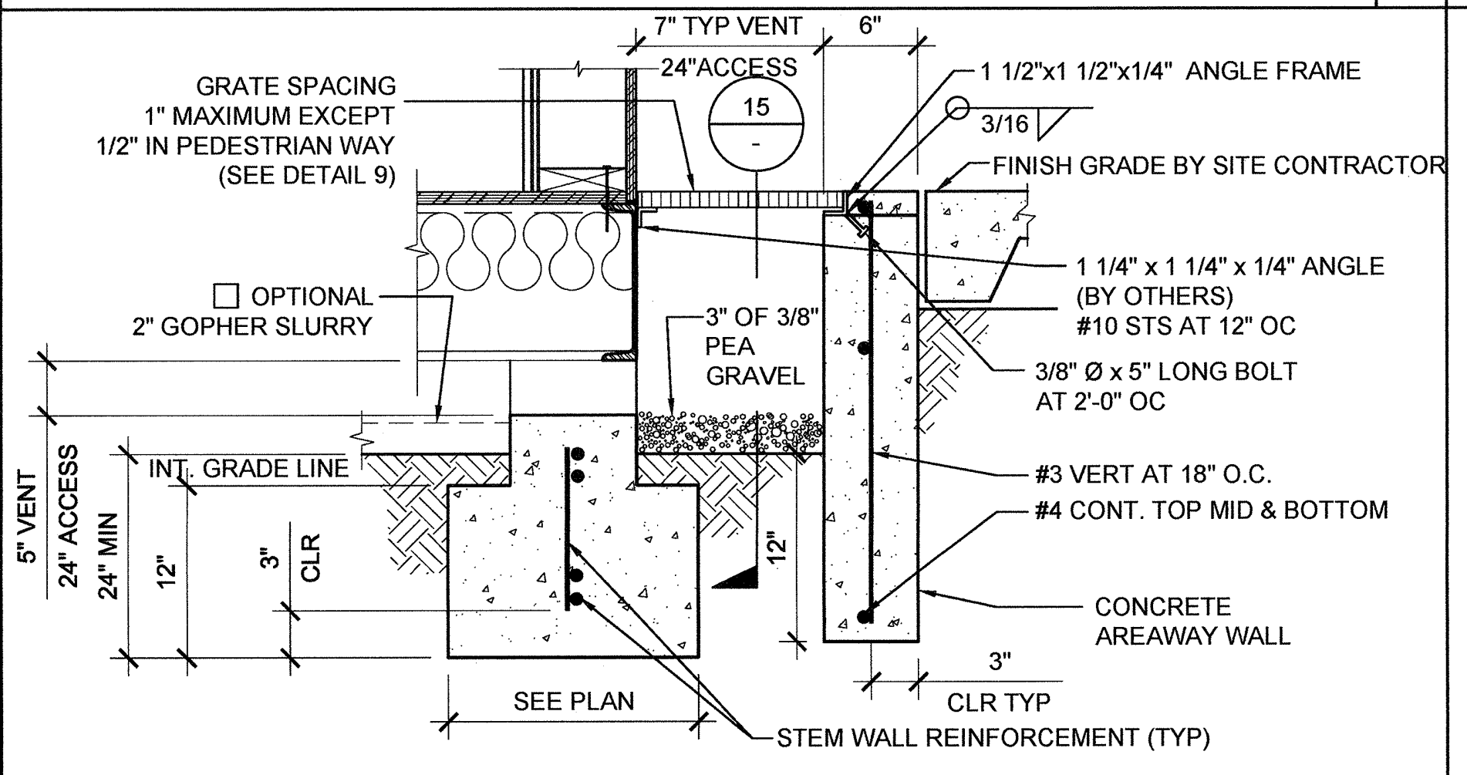


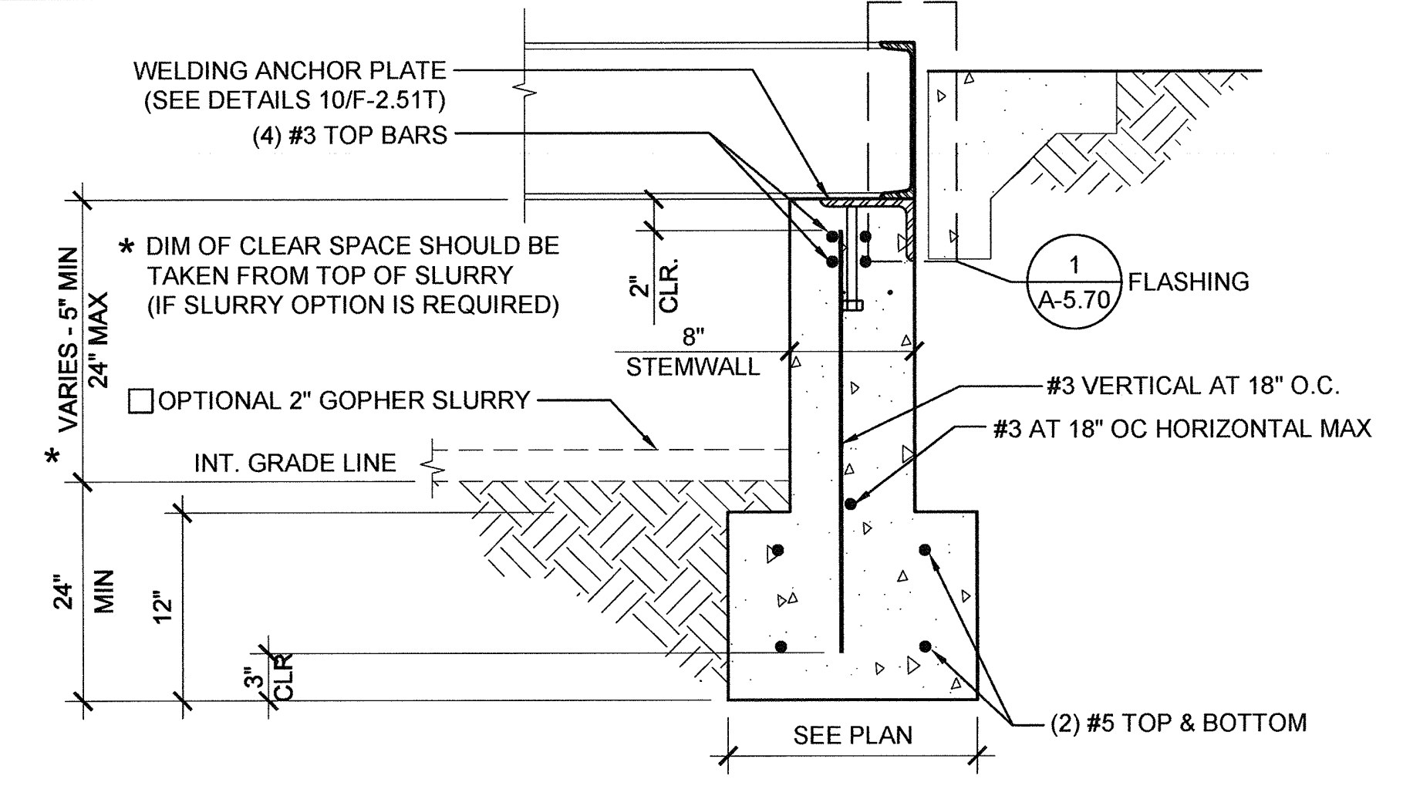
NOTE:
OPENING IN GRATE MUST BE ORIENTED PERPENDICULAR TO PEDESTRIAN WAY

VENT SCALE : 1 1/2" = 1'-0" 9

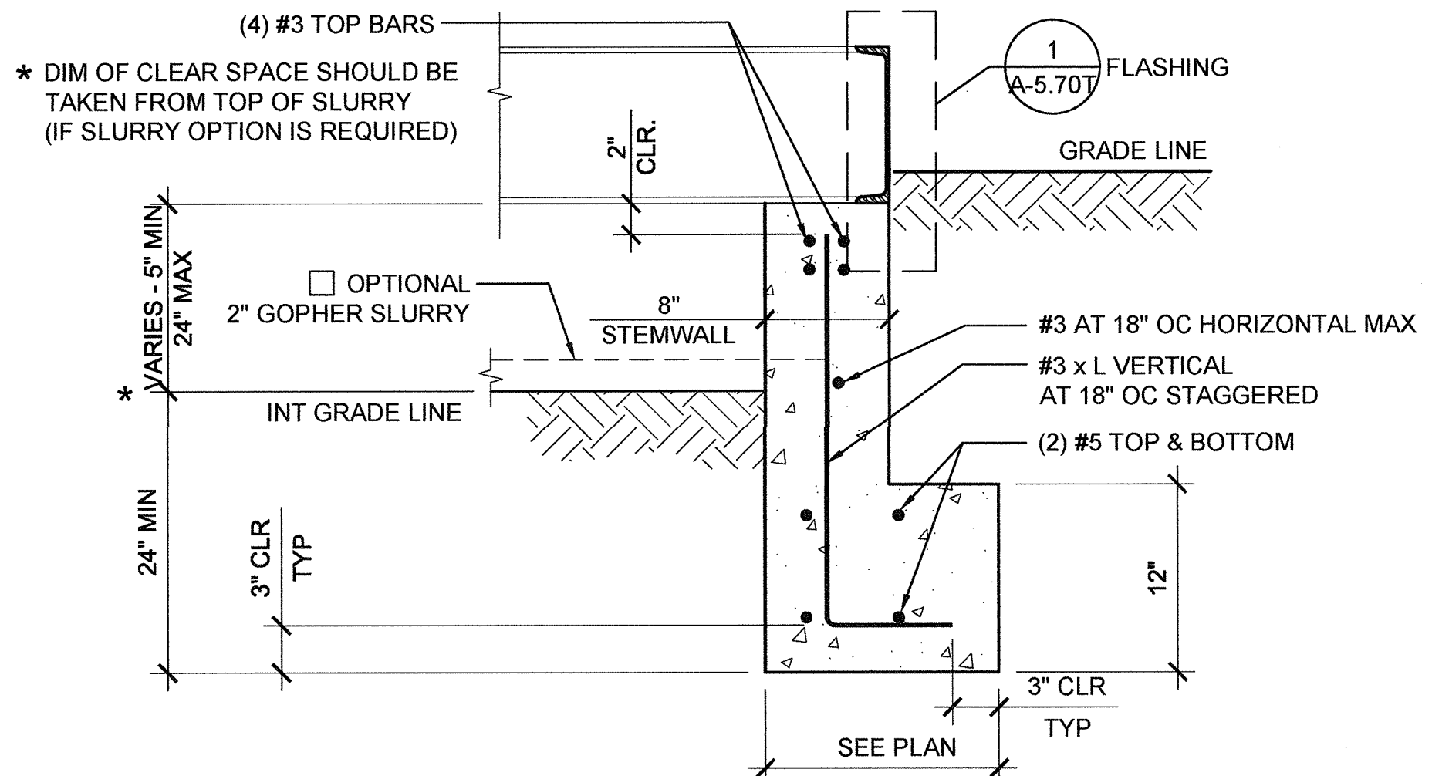

7" TYP VENT
6"
24"ACCESS
15
-
GRATE SPACING 1" MAXIMUM EXCEPT 1/2" IN PEDESTRIAN WAY (SEE DETAIL 9)
1 1/2"x1 1/2"x1/4" ANGLE FRAME
3/16
FINISH GRADE BY SITE CONTRACTOR
☐ OPTIONAL 2" GOPHER SLURRY
3" OF 3/8" PEA GRAVEL
1 1/4" x 1 1/4" x 1/4" ANGLE (BY OTHERS) #10 STS AT 12" OC
3/8" Ø x 5" LONG BOLT AT 2'-0" OC
INT. GRADE LINE
5" VENT
24" ACCESS
24" MIN
12"
3" CLR
12"
#3 VERT AT 18" O.C.
#4 CONT. TOP MID & BOTTOM
CONCRETE AREAWAY WALL
3" CLR TYP
SEE PLAN
STEM WALL REINFORCEMENT (TYP)

VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

1


WELDING ANCHOR PLATE (SEE DETAILS 10/F-2.51T)
(4) #3 TOP BARS
* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)
2" CLR.
8" STEMWALL
1
A-5.70
FLASHING
☐ OPTIONAL 2" GOPHER SLURRY
#3 VERTICAL AT 18" O.C.
#3 AT 18" OC HORIZONTAL MAX
* VARIES - 5" MIN 24" MAX
INT. GRADE LINE
24" MIN
12"
3" CLR
SEE PLAN
(2) #5 TOP & BOTTOM

END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2


(4) #3 TOP BARS
* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)
1
A-5.70T
FLASHING
GRADE LINE
2" CLR.
* VARIES - 5" MIN 24" MAX
☐ OPTIONAL 2" GOPHER SLURRY
8" STEMWALL
#3 AT 18" OC HORIZONTAL MAX
#3 x L VERTICAL AT 18" OC STAGGERED
(2) #5 TOP & BOTTOM
INT GRADE LINE
24" MIN
3" CLR TYP
12"
3" CLR TYP
SEE PLAN

SIDE WALL FOOTING SCALE : 1" = 1'-0" 3

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PROJECT NAME:

SHEET TITLE:

CONCRETE FOUNDATION DETAILS
BELOW GRADE

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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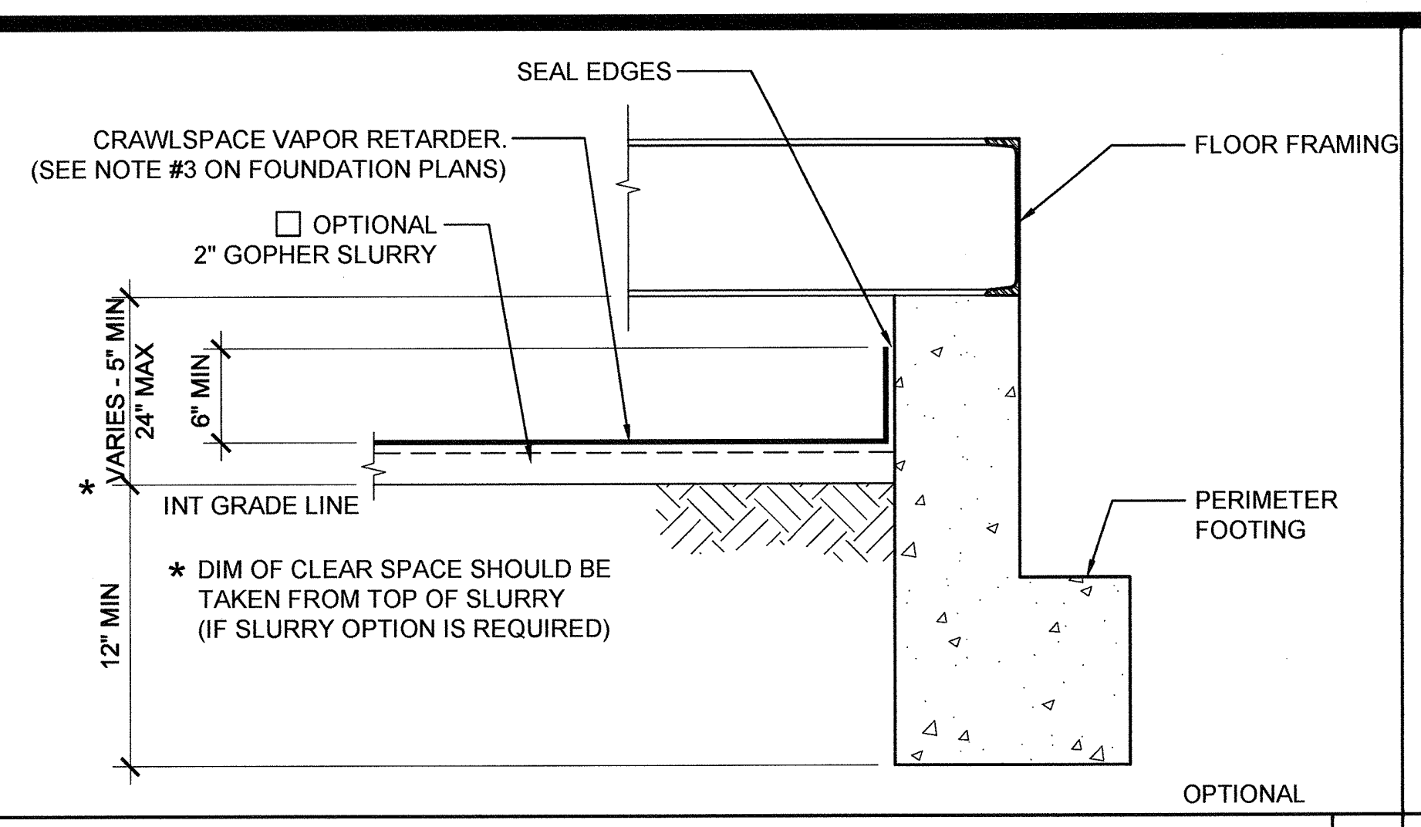
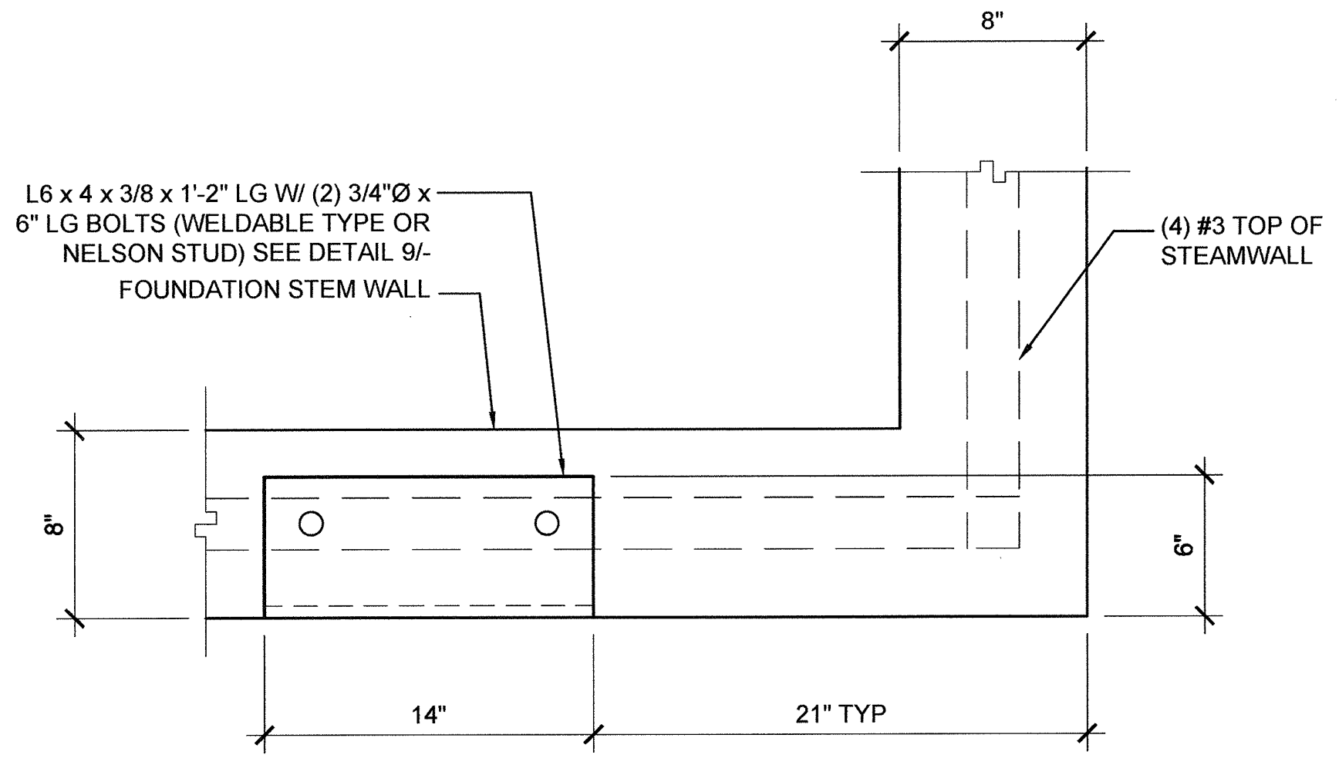


* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)

CRAWLSPACE VAPOR RETARDER SCALE : 1" = 1'-0" 11


8"
L6 x 4 x 3/8 x 1'-2" LG W/ (2) 3/4"Ø x
6" LG BOLTS (WELDABLE TYPE OR
NELSON STUD) SEE DETAIL 9/-
FOUNDATION STEM WALL
(4) #3 TOP OF
STEAMWALL
8"
6"
14"
21" TYP

ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6

NOT USED 1

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NOT USED 12

NOT USED 7

NOT USED 2

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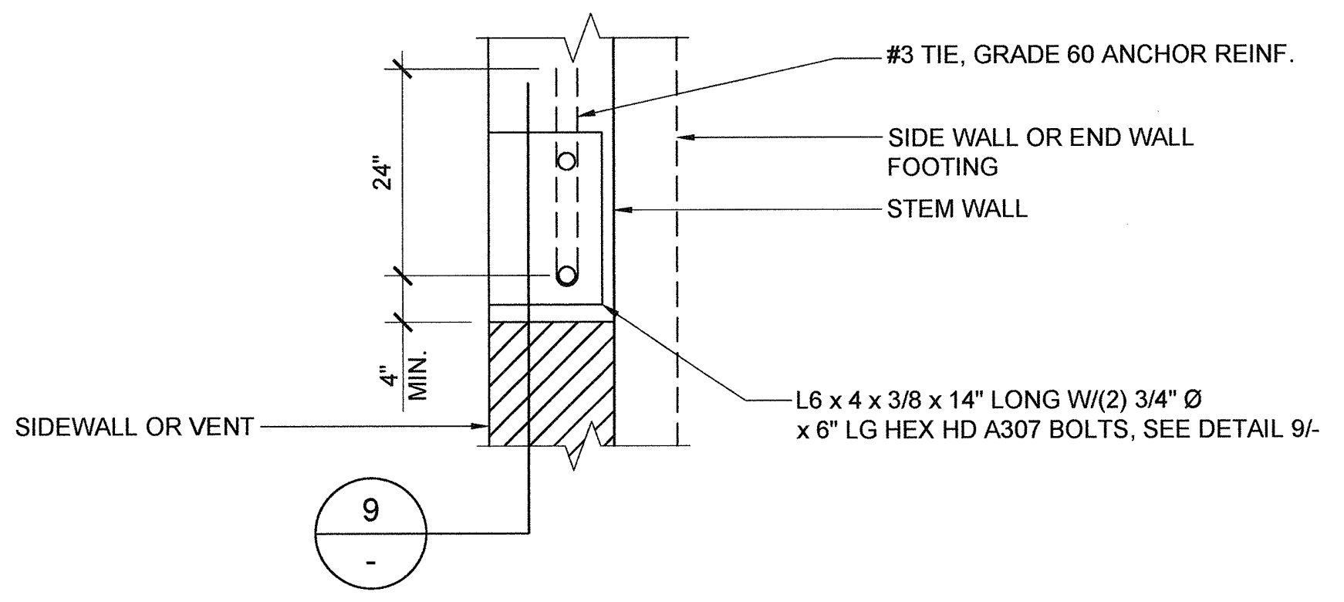
NOT USED 13

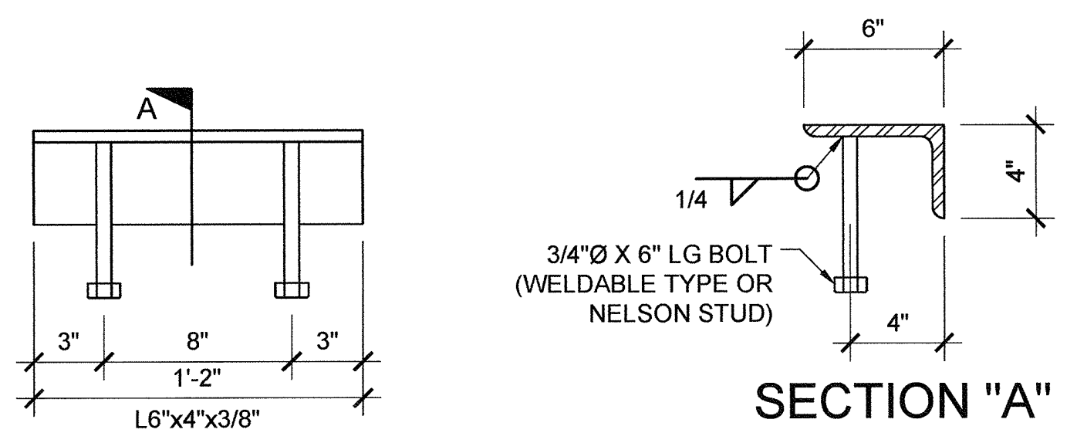
NOT USED 8

NOT USED 3

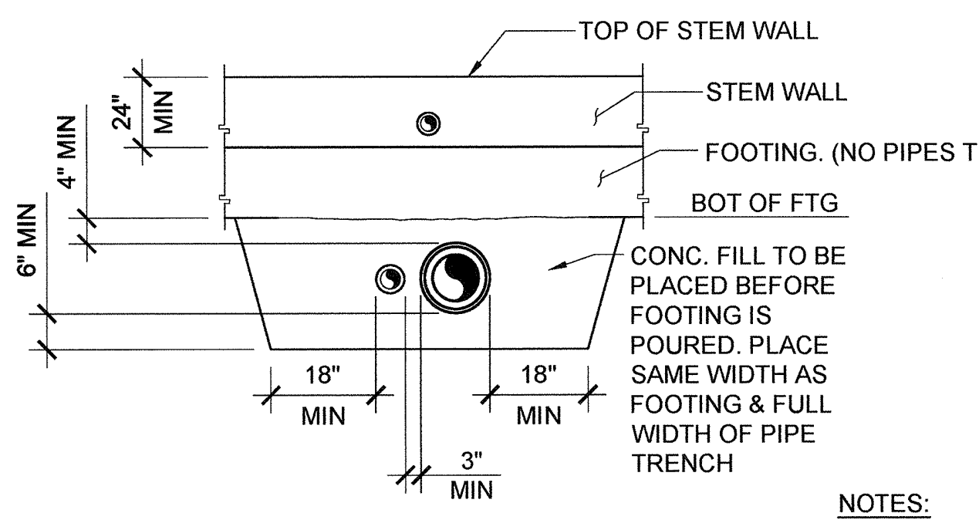
NOT USED 19


#3 TIE, GRADE 60 ANCHOR REINF.
SIDE WALL OR END WALL
FOOTING
STEM WALL
24"
4"
MIN.
SIDEWALL OR VENT
L6 x 4 x 3/8 x 14" LONG W/(2) 3/4" Ø
x 6" LG HEX HD A307 BOLTS, SEE DETAIL 9/-
9
-

ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 14



WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9



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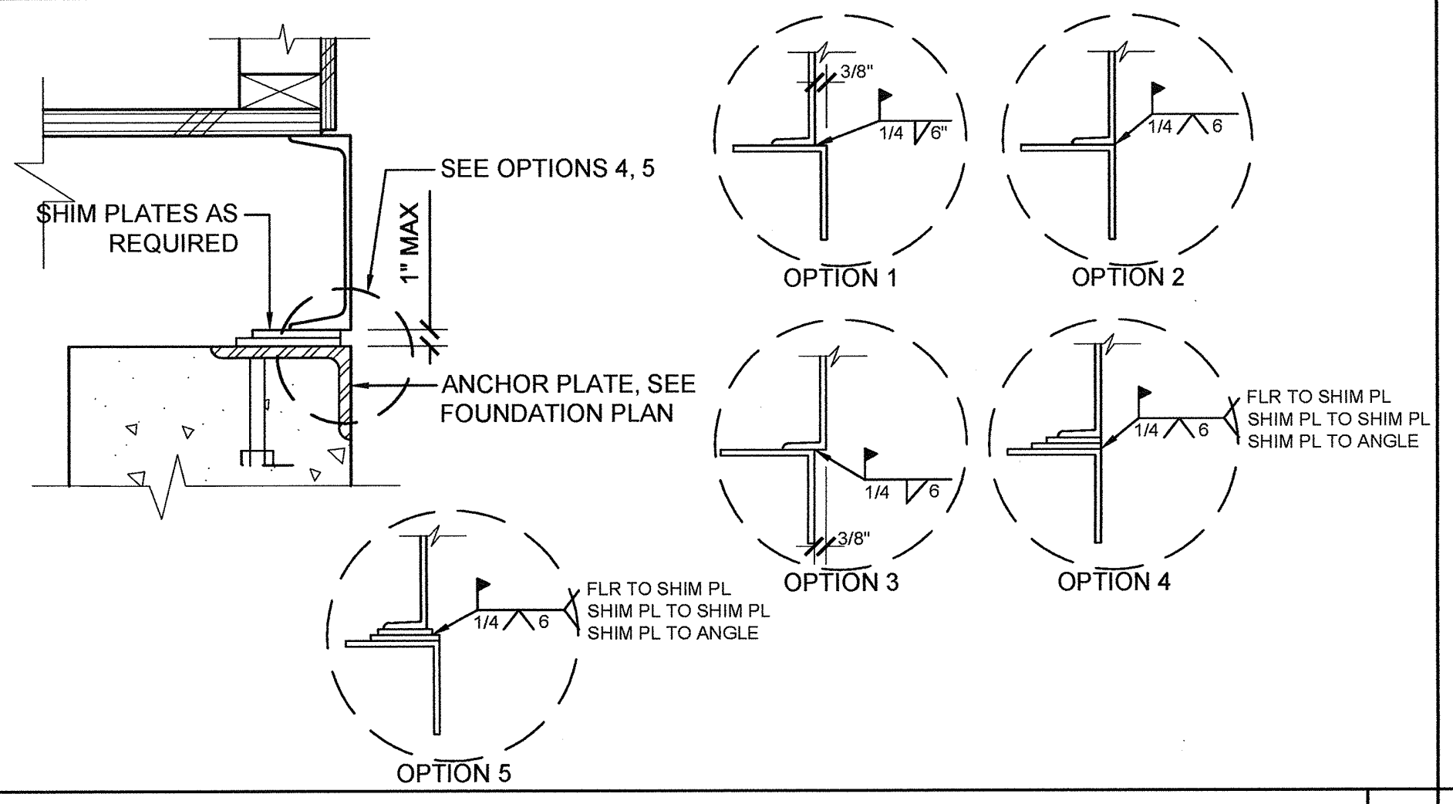
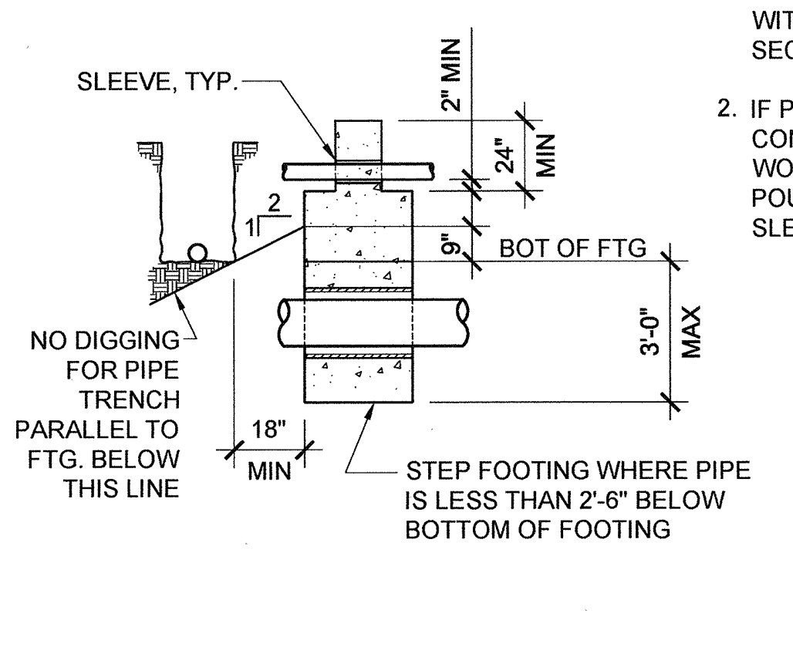
NOT USED 20

NOT USED 15



FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10



NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES

PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

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F-2.51

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
    a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
    b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-11.
    c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS SPECIFIED IN TITLE 24. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1).
    CONCRETE COMPRESSIVE STRENGTH F'C= 3500 PSI
    WATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT
    PORTLAND CEMENT TYPE I
    NORMAL WEIGHT
5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
    a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
    b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN CONCRETE SLAB SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ALL CEMENT SHALL BE TYPE I OR II PER ASTM C-150. (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING
11. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
12. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
13. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2013 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.120" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.135" : ASTM A-1011/A GRADE 40

SHEET STEEL DESIGNATION THICKNESS (INCHES)	MINIMUM DELIVERED THICKNESS (INCHES)
0.018	0.017
0.030	0.029
0.036	0.034
0.048	0.046
0.060	0.057
0.075	0.071
0.105	0.100
0.120	0.114
0.135	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NDT:

(b) CJP GROOVE WELD NDT

ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = DF #2 OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
    i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
    ii. OPTIONAL: 5/8" MDO
    iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
    FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.9.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED WITHIN 8" OF EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL (CBC SECTION 2304.11.2.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. FASTEN WOOD BESIDES USING SCREWS.
    ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.9.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO SHEET METAL SUPPORTS W/ #8 STS @ 6" E.N.; 12" F.N. OR 0.145 DRIVE PINS @ 6" E.N.; 6" F.N. (8'-6"x15'-6") & (8'-6"x21'-6") 0.145 DRIVE PINS @ 4" B.N.; 6" E.N.; 6" F.N. (8'-6"x32'-0")

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO SHEET METAL SUPPORTS W/ #8 x 1 1/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS (ICC ESR-1976) OR 0.145 PACFAST PREFERRED FASTENERS (ICC ESR-2961) AT 6" OC AT BOUNDARIES, AT 6" OC AT EDGES, AND 12" OC AT INTERMEDIATE SUPPORTS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2. 0.145 PNEUMATIC FASTENERS (PACFAST PREFERED FASTENERS) OPTION IS NOT ALLOWED APPLICATIONS AT STRUCTURAL STEEL, I.E. FLOOR CHANNELS OR 150 PSF FLOOR LOAD OPTION.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI or 4000 PSI
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2013 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 14TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE CBC - TABLE 2304.9.1

CONNECTION	FASTENING^{a,m}	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3" x 0.131" NAILS	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131") 2 - 3" x 0.31" NAILS	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d($3\frac{1}{2}$" x .135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL	3 - 16d($3\frac{1}{2}$" x .135") AT 16" O.C. 4 - 3"x0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON ($3\frac{1}{2}$" x 0.162") 3 - 3"x0.031" NAILS	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON ($2\frac{1}{2}$"x0.131") 4 - 3"x0.131" NAILS	TOENAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	END NAIL
9. DOUBLE STUDS	16d ($3\frac{1}{2}$"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 12" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d ($3\frac{1}{2}$"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON ($3\frac{1}{2}$"x0.162") 12 - 3"x0.131" NAILS	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	TOENAIL
12. RIM JOIST TO TOP PLATE	8d ($2\frac{1}{2}$"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS, AND INTERSECTIONS	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON ($3\frac{1}{2}$"x0.162")	16" OC ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 5 - 3"x0.131" NAILS	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON ($2\frac{1}{2}$"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	FACE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON ($2\frac{1}{2}$"x0.131") 2 - 3"x0.131" NAILS	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON ($3\frac{1}{2}$"x0.162") 3"x0.131" NAILS	24" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32" O.C 3"x0.131" NAIL AT 24" O.C	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x0.192") 3 - 3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON ($3\frac{1}{2}$"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
28. ROOF RAFTERS TO 2-BY RIDGE BEAM	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD^{b} SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d^{c,l} $2\frac{3}{8}$"x0.113" NAIL^{n} $1\frac{3}{4}$" 16d GAGE^{0} 19/32" TO 3/4" 8d^{d} or 6d^{e} $2\frac{3}{8}$"x0.113" NAIL 2" 16d GAGE^{p} 7/8" TO 1" 8d^{c} 1 1/8" TO 1 1/4" 10d^{d} or 8d^{e}	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS 6d^{e} 7/8" TO 1" 8d^{e} 1 1/8" TO 1 1/4" 10d^{d} OR 8d^{e}	
32. PANEL SIDING (TO FRAMING)	1/2" AND LESS 6d^{f} 5/8" 8d^{f}	
33. FIBERBOARD SHEATHING^{g}	1/2" NO. 11 GA ROOFING NAIL^{h} 6d COMMON NAIL (2"x0.113") 25/32" NO. 11 GA ROOFING NAIL^{h} 8d COMMON NAIL ($2\frac{1}{2}$"x 0.131")	
34. INTERIOR PANELING	1/4" 4d^{j} 3/8" 6d^{k}	

FOOTNOTES:
a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
b. NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX, OR CASING.
c. COMMON OR DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
d. COMMON (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
e. DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
f. CORROSION-RESISTANT SIDING (6d - 1 7/8" x 0.106" ; 8d - 2 3/8" x 0.128") OR CASING (6d - 2" x 0.099" ; 8d - 2 1/2" x 0.113") NAIL.
g. FASTENERS SPACED 3" ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
j. CASING (1 1/2" x 0.080") OR FINISH (1 1/2" x 0.072") NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
k. PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16". STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.
o. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" ON CENTER AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
p. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

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SILVER CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
STRUCTURAL SPECIFICATIONS

R&S TAVARES ASSOCIATES
DESIGN•CONSULTING•PROJECT MGT
14875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
RST#15008
01/23/2017

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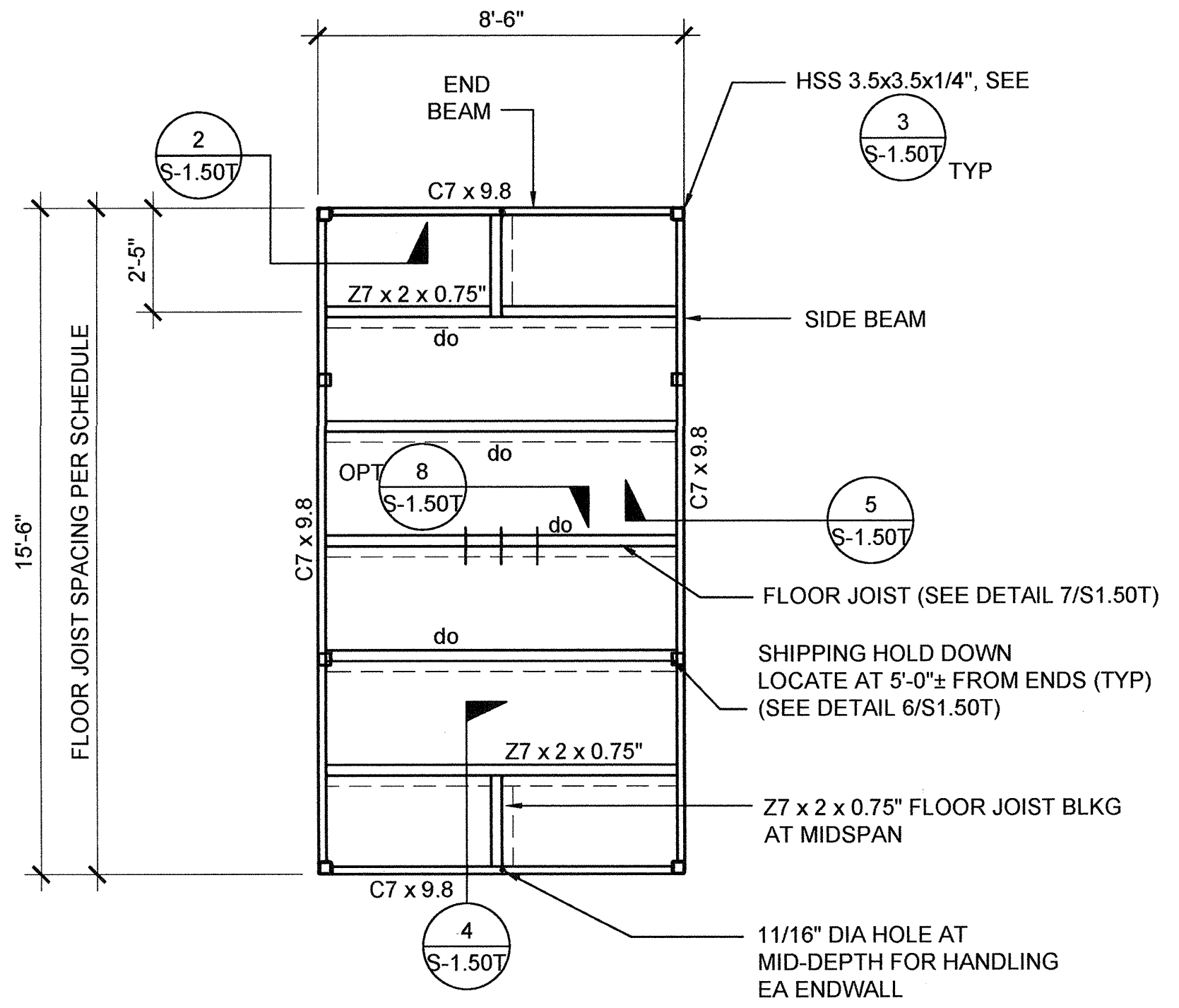
PROJECT NO:	
DRAWN BY:	FIL CARRILLO
SCALE:	AS NOTED
DATE:	02/04/2015

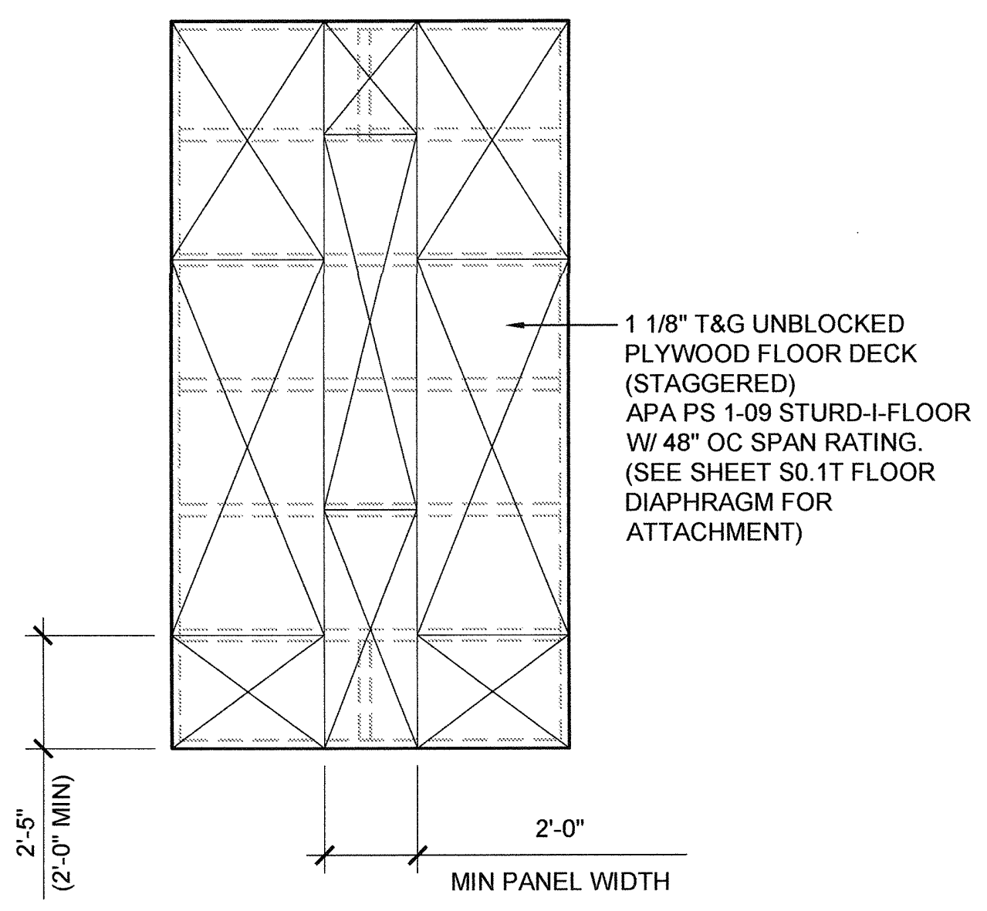
SHEET NUMBER
S-0.1-T
- - HIGH SEISMIC - -


8'-6"
END BEAM
HSS 3.5x3.5x1/4", SEE 3/S-1.50T TYP
2/S-1.50T
C7 x 9.8
2'-5"
Z7 x 2 x 0.75"
do
SIDE BEAM
do
OPT 8/S-1.50T
C7 x 9.8
C7 x 9.8
5/S-1.50T
do
FLOOR JOIST (SEE DETAIL 7/S1.50T)
do
SHIPPING HOLD DOWN LOCATE AT 5'-0"± FROM ENDS (TYP) (SEE DETAIL 6/S1.50T)
Z7 x 2 x 0.75"
Z7 x 2 x 0.75" FLOOR JOIST BLKG AT MIDSPAN
C7 x 9.8
4/S-1.50T
11/16" DIA HOLE AT MID-DEPTH FOR HANDLING EA ENDWALL
15'-6"
FLOOR JOIST SPACING PER SCHEDULE

NOTE:
SEE 10/F-2.51T & 2/S-1.50T
FOR FLOOR TO
FOUNDATION ATTACHMENT

8'-6" x 15'-6" FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0"


1 1/8" T&G UNBLOCKED PLYWOOD FLOOR DECK (STAGGERED) APA PS 1-09 STURD-I-FLOOR W/ 48" OC SPAN RATING. (SEE SHEET S0.1T FLOOR DIAPHRAGM FOR ATTACHMENT)
2'-5" (2'-0" MIN)
2'-0"
MIN PANEL WIDTH

TYP FLOOR SHEATHING LAYOUT

SCALE: 1/4" = 1' - 0"

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
	50	32" O.C.

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING PLAN

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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18

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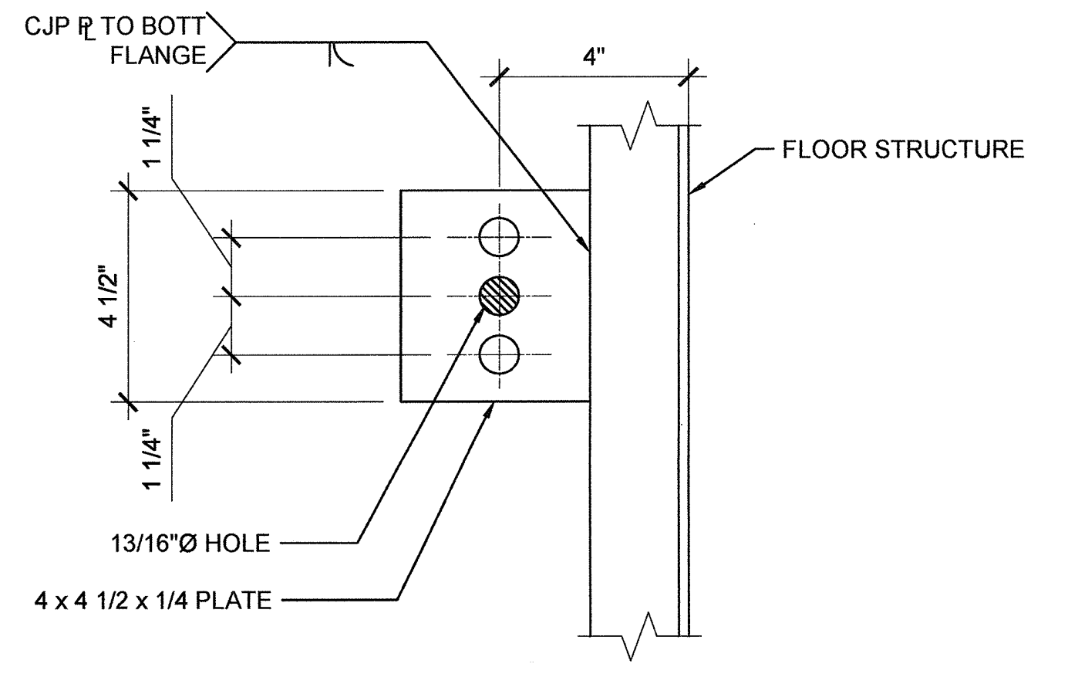
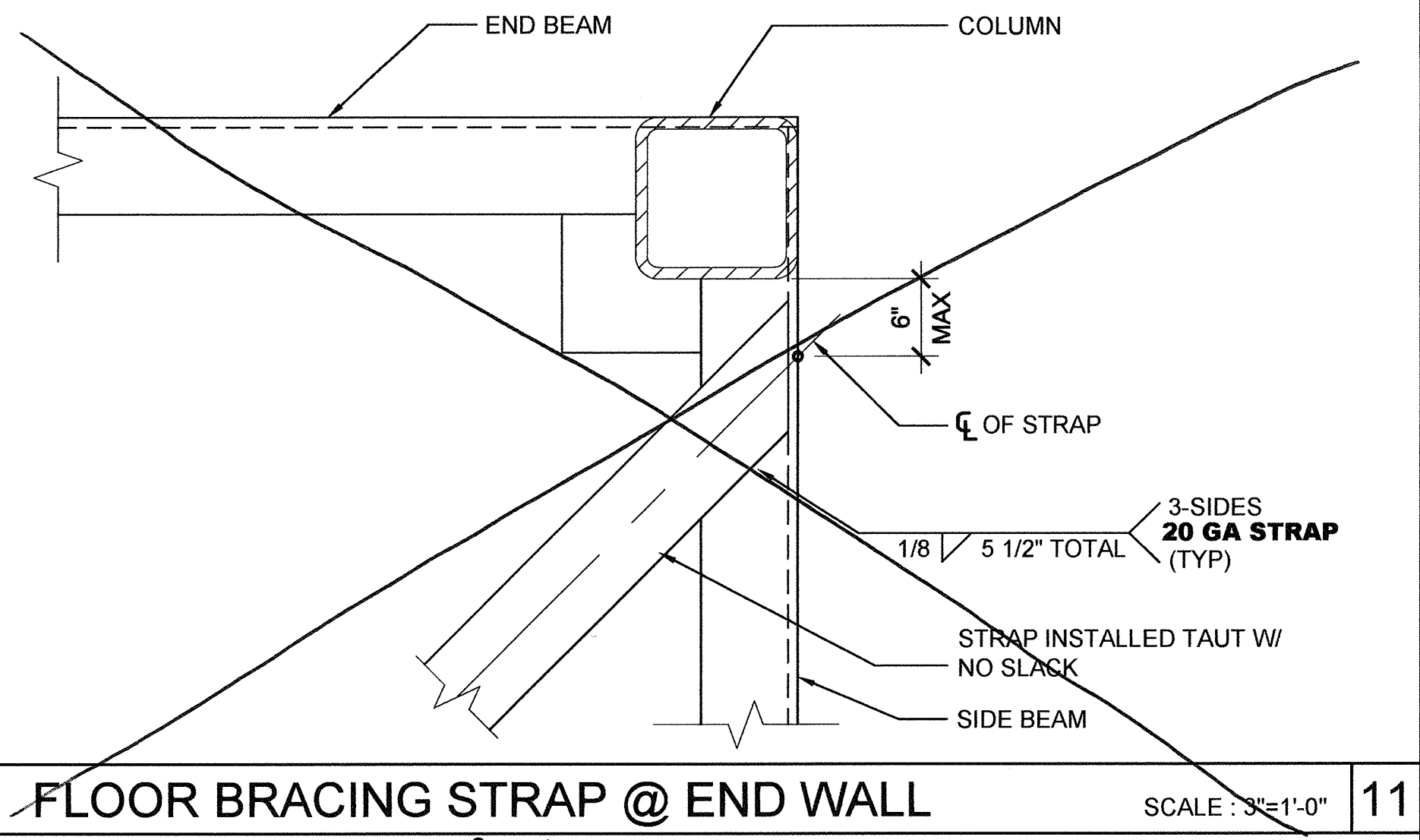
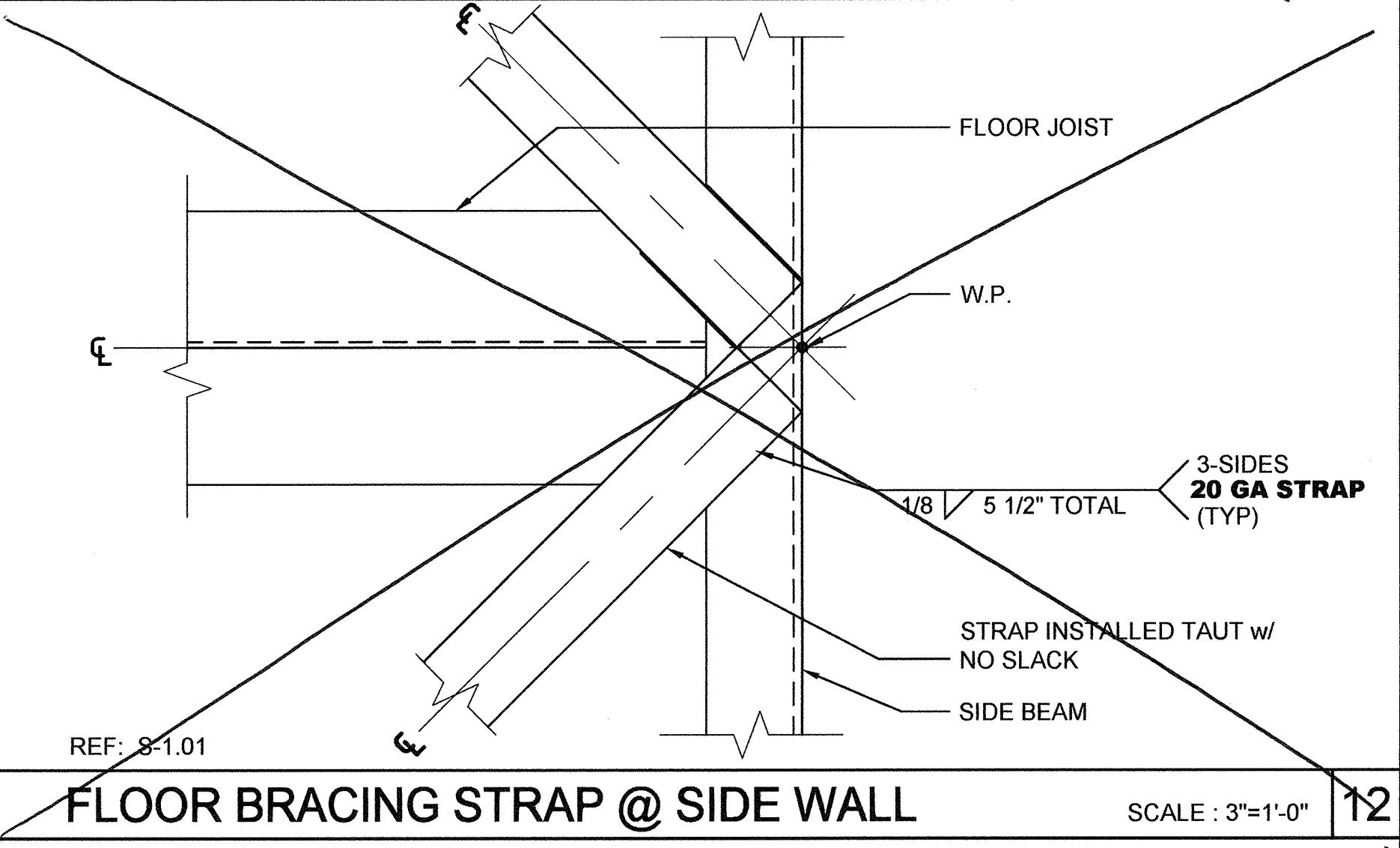


ANCHOR PLATE AT SIDEWALL OR ENDWALL SCALE : 3" = 1'-0" 20

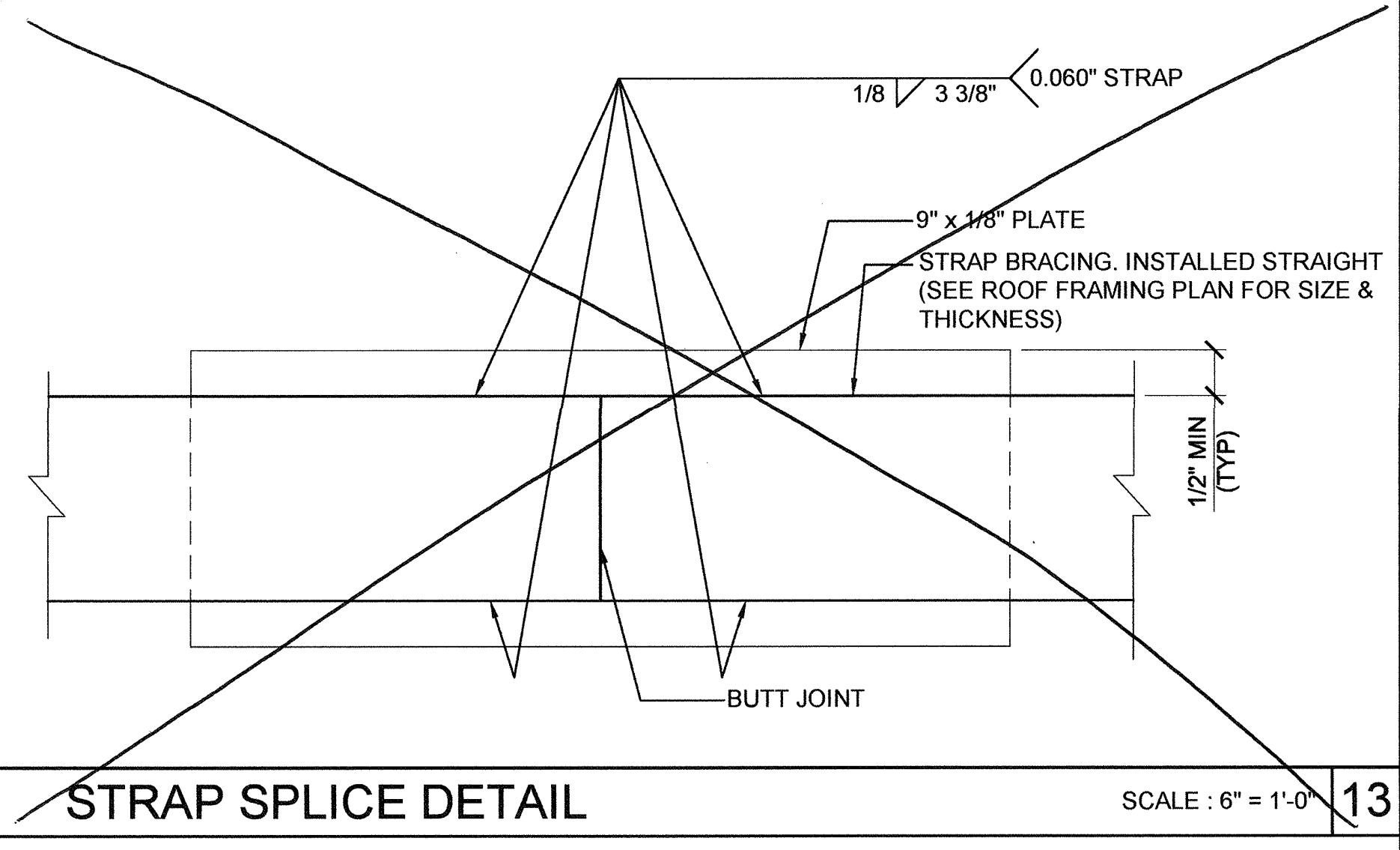


FLOOR BRACING STRAP @ END WALL SCALE : 3"=1'-0" 11

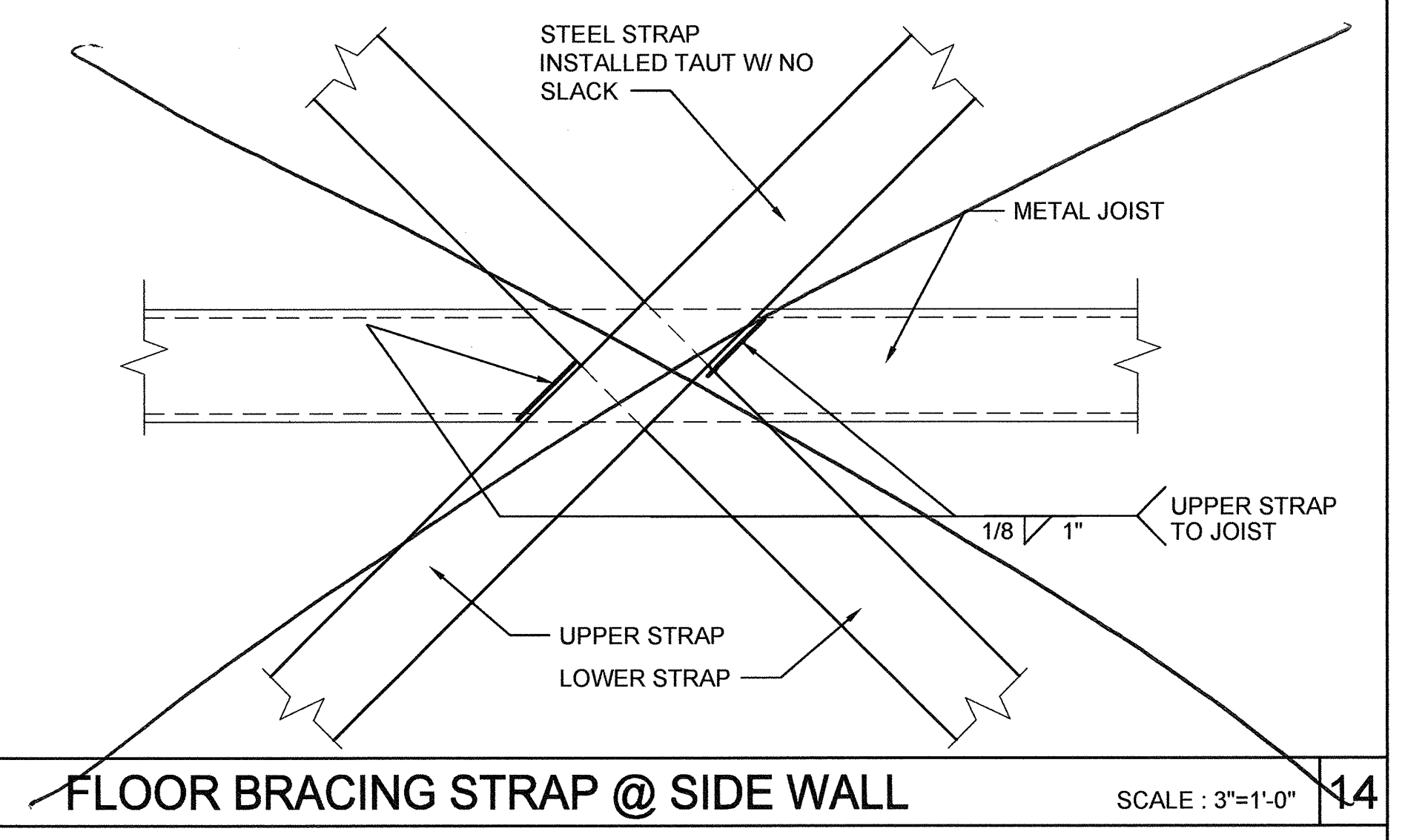


REF: S-1.01

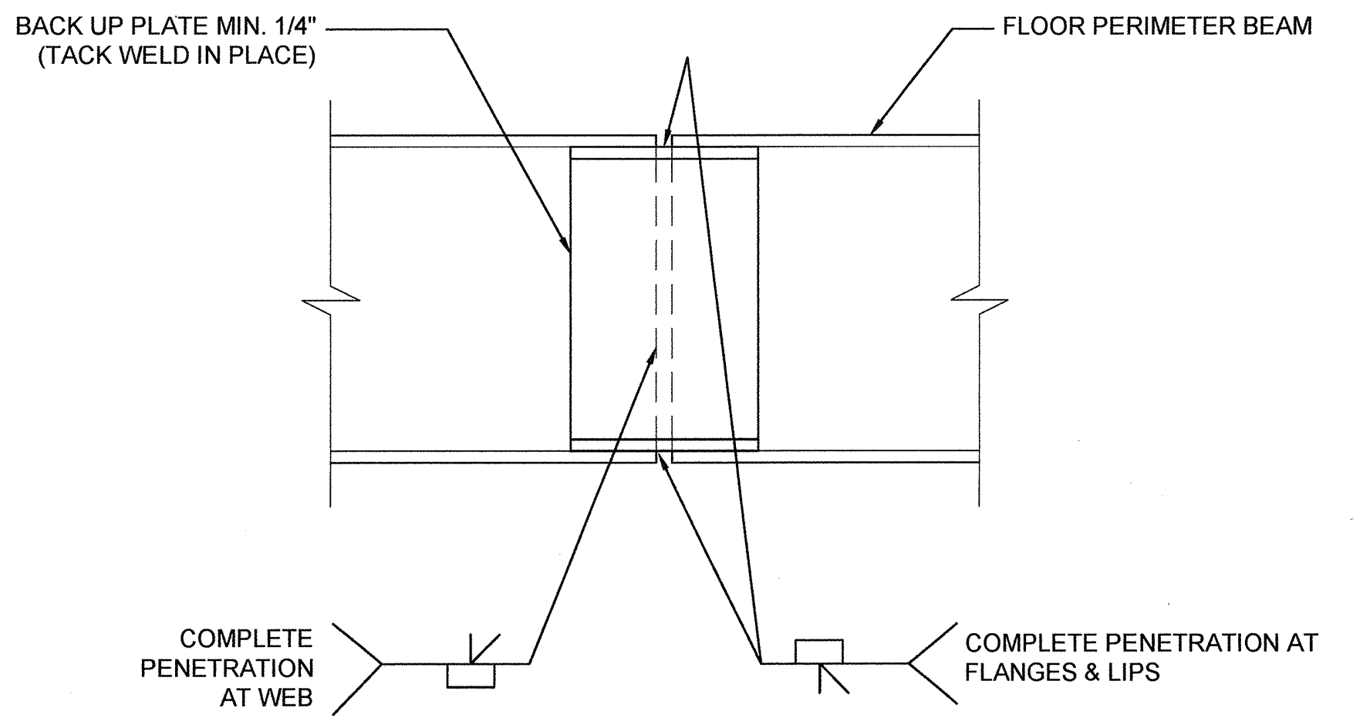
FLOOR BRACING STRAP @ SIDE WALL SCALE : 3"=1'-0" 12


1/8 3 3/8"
0.060" STRAP
9" x 1/8" PLATE
STRAP BRACING. INSTALLED STRAIGHT (SEE ROOF FRAMING PLAN FOR SIZE & THICKNESS)
1/2" MIN (TYP)
BUTT JOINT

STRAP SPLICE DETAIL SCALE : 6" = 1'-0" 13

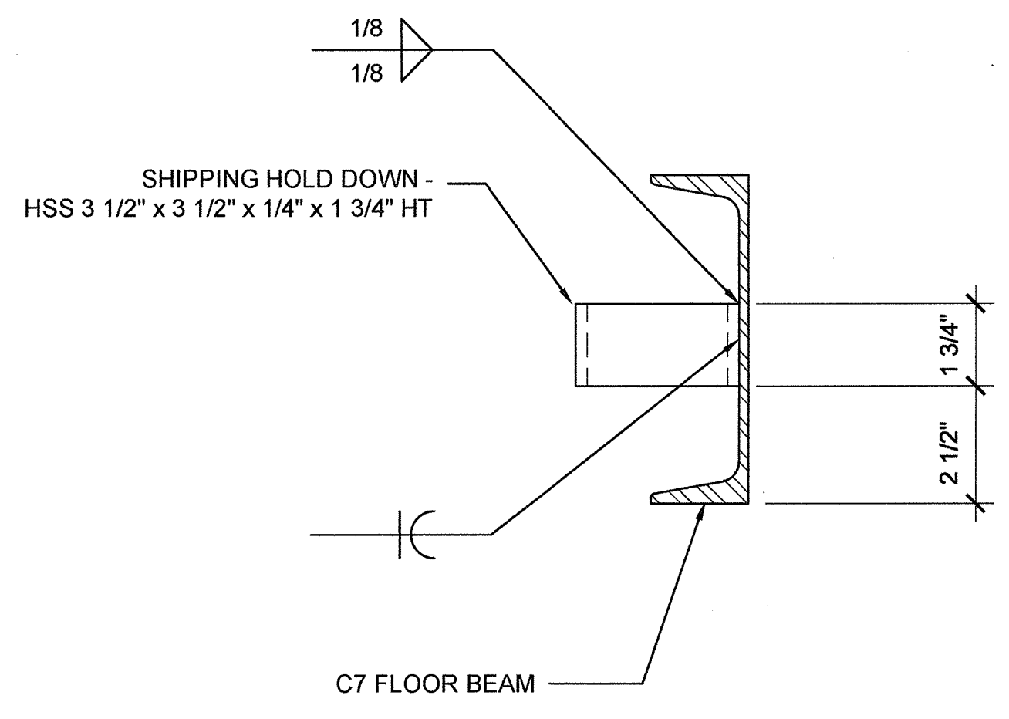


FLOOR BRACING STRAP @ SIDE WALL SCALE : 3"=1'-0" 14


BACK UP PLATE MIN. 1/4" (TACK WELD IN PLACE)
FLOOR PERIMETER BEAM
COMPLETE PENETRATION AT WEB
COMPLETE PENETRATION AT FLANGES & LIPS

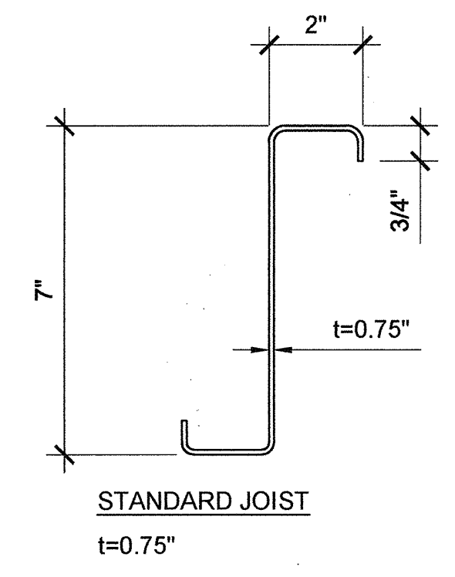
REF: S-1.01

FLOOR BEAM SPLICE SCALE : 3" = 1'-0" 15



REF: S-1.01

SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0" 6



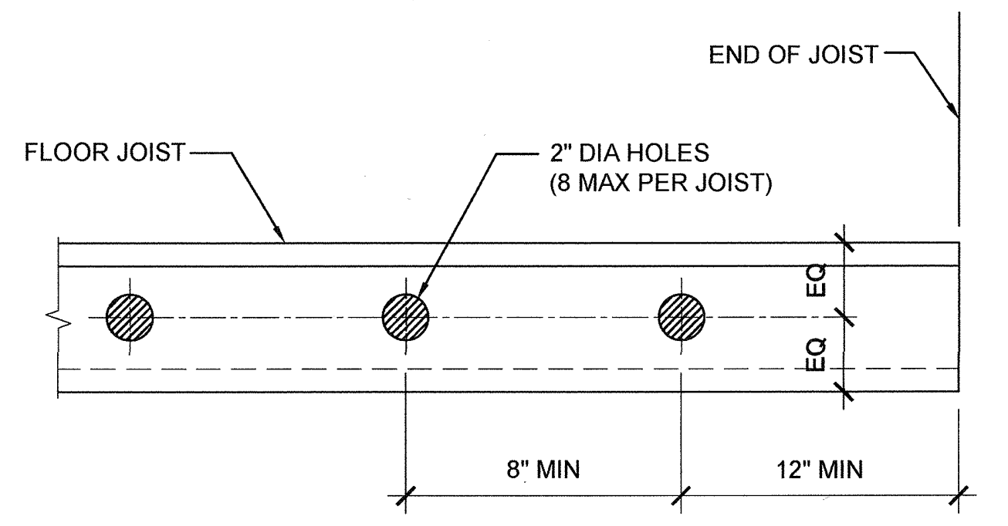
STANDARD JOIST
t=0.75"

STANDARD JOIST

t=0.75"
fy = 33 ksi
Sx = 1.44 in3
Iy = 4.33 in4

REF: S-1.01

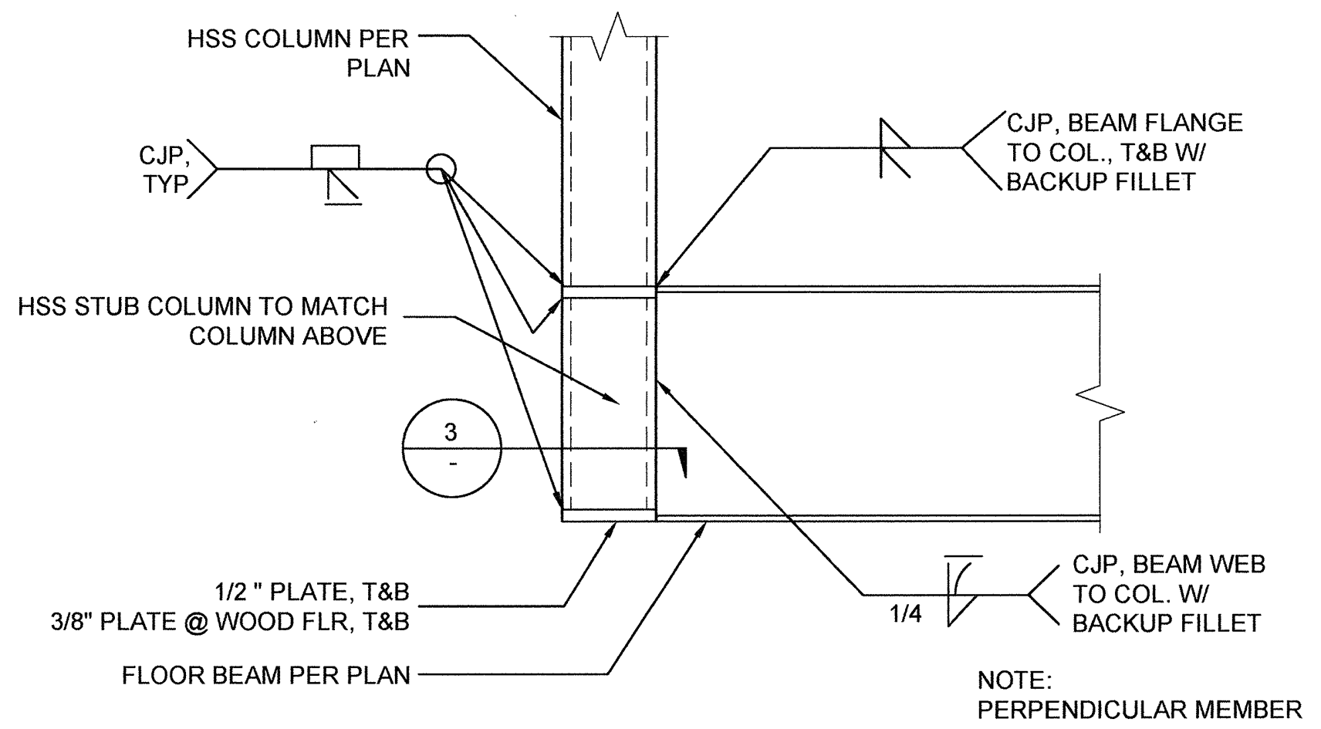
FLOOR JOIST / BLOCKING SCALE : 3" = 1'-0" 7



FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0" 8

10

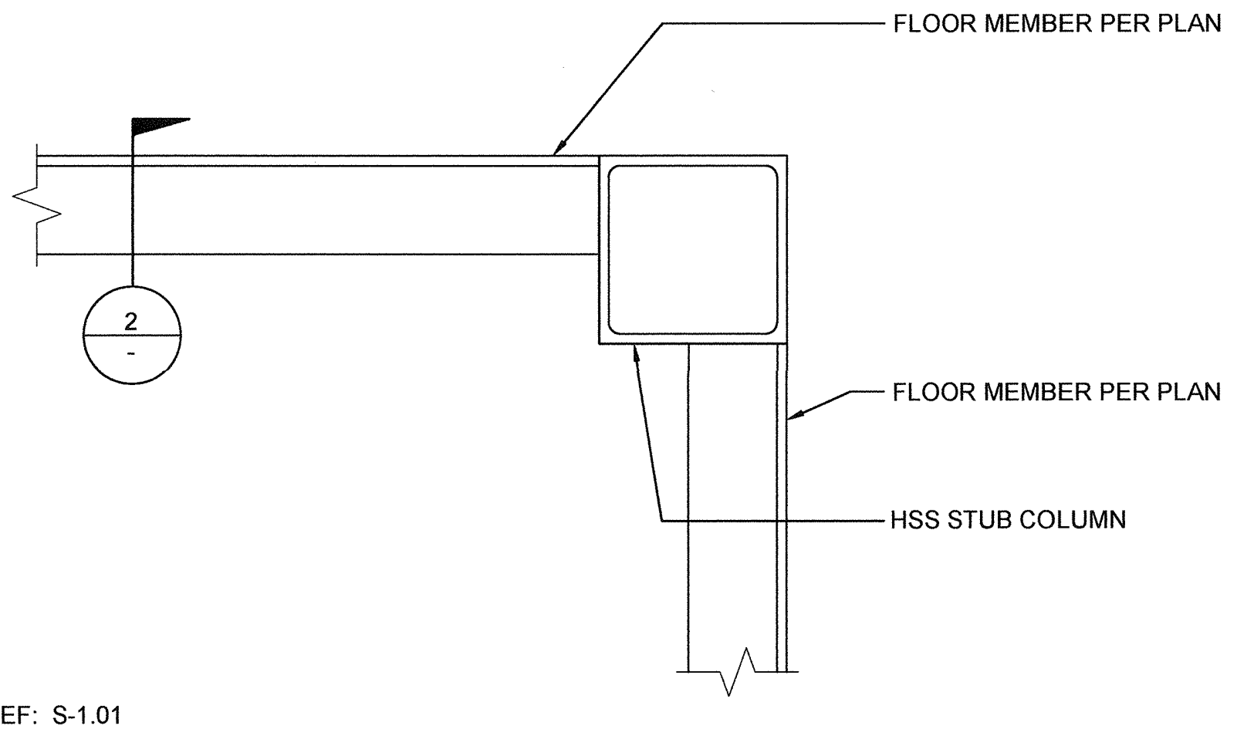
NOT USED 1


HSS COLUMN PER PLAN
CJP, TYP
CJP, BEAM FLANGE TO COL., T&B W/ BACKUP FILLET
HSS STUB COLUMN TO MATCH COLUMN ABOVE
3
-
1/2 " PLATE, T&B
3/8" PLATE @ WOOD FLR, T&B
FLOOR BEAM PER PLAN
1/4
CJP, BEAM WEB TO COL. W/ BACKUP FILLET

NOTE:
PERPENDICULAR MEMBER NOT SHOWN FOR CLARITY

REF: S-1.01

FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0" 2



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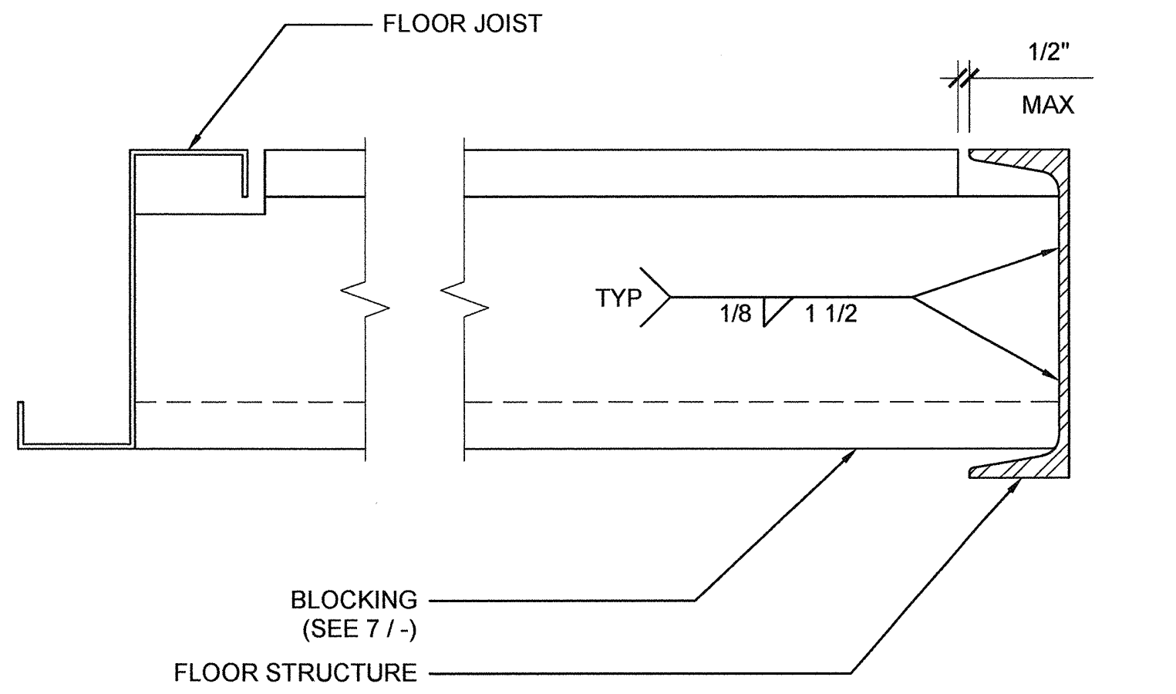
CORNER CONNECTION SCALE : 3" = 1'-0" 3



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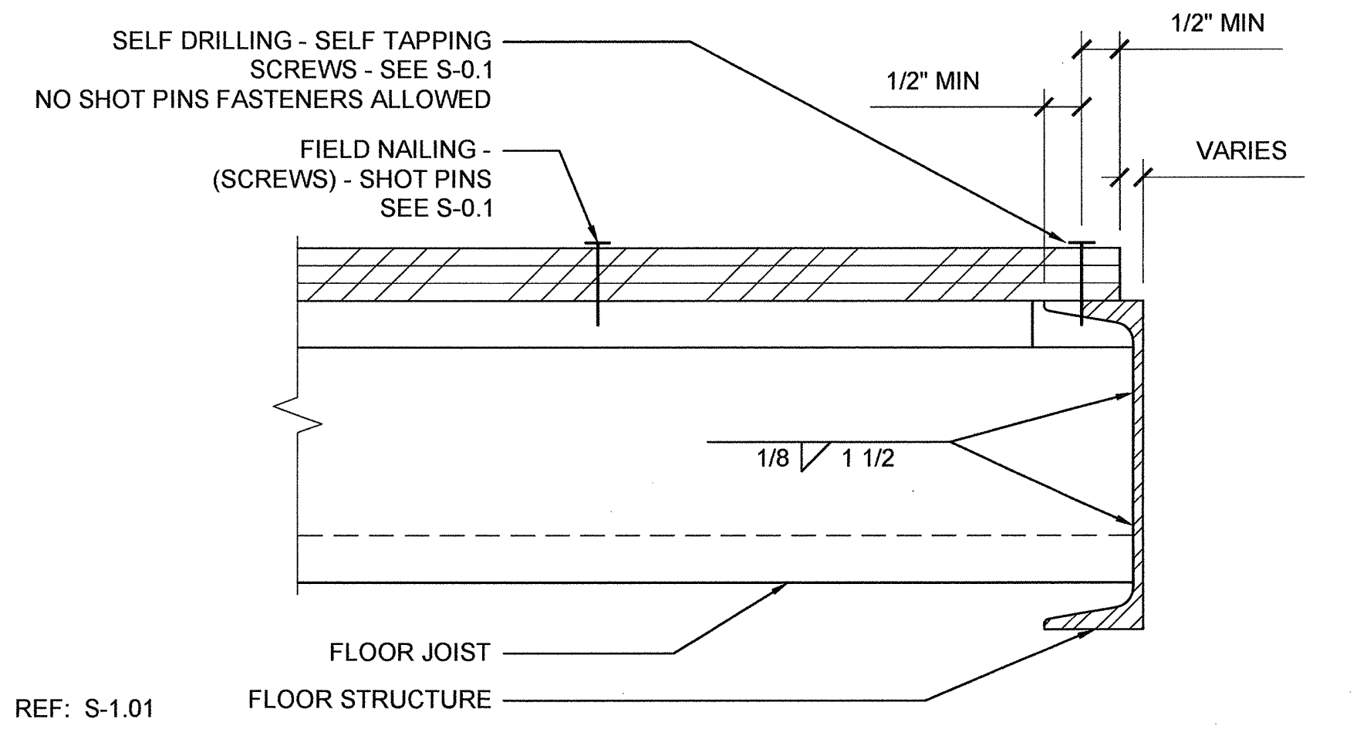
BLOCKING TO END BEAM SCALE : 3" = 1'-0" 4


SELF DRILLING - SELF TAPPING SCREWS - SEE S-0.1 NO SHOT PINS FASTENERS ALLOWED
FIELD NAILING - (SCREWS) - SHOT PINS SEE S-0.1
1/2" MIN
1/2" MIN
VARIES
1/8 1 1/2
FLOOR JOIST
FLOOR STRUCTURE

REF: S-1.01

JOIST TO SIDE BEAM SCALE : 3" = 1'-0" 5

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SHEET TITLE:

FLOOR FRAMING DETAILS

WOOD FLOOR

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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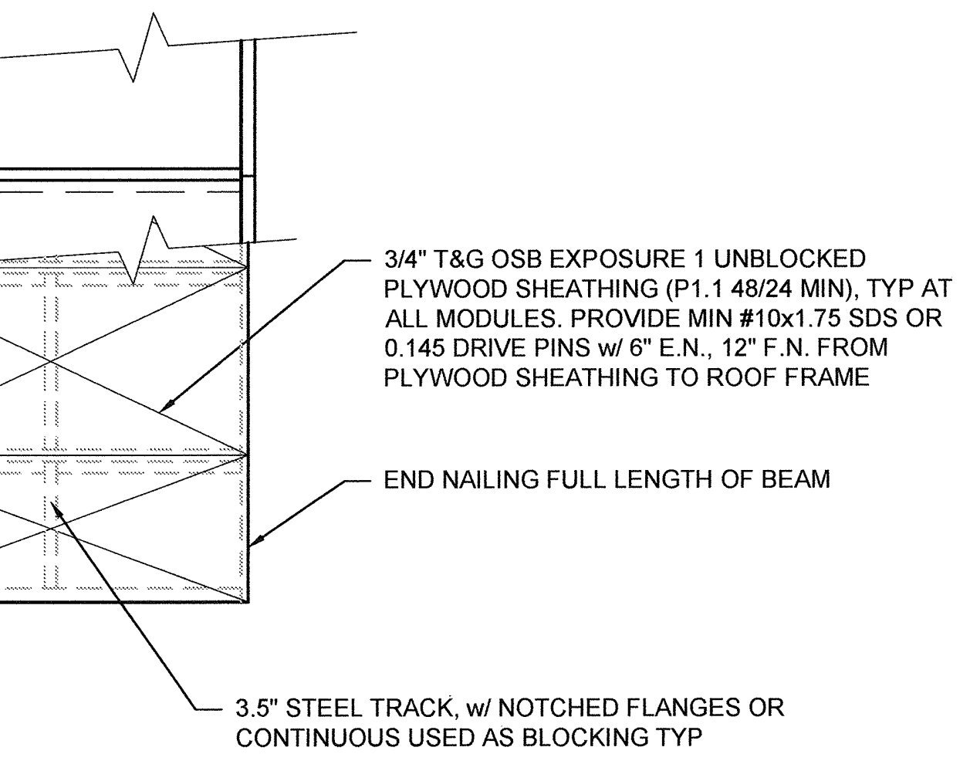
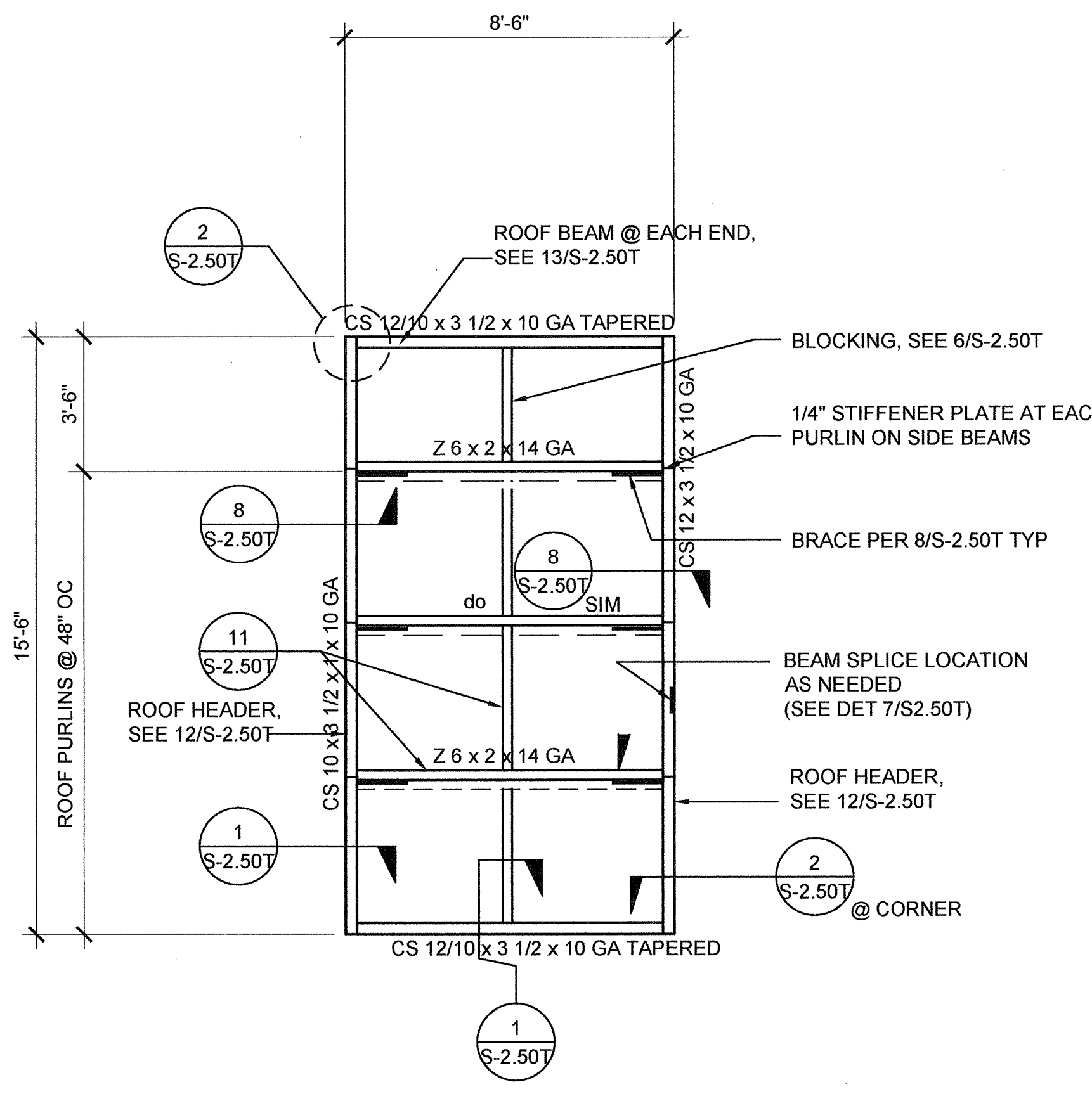

1
S-2.50
3/4" T&G OSB EXPOSURE 1 UNBLOCKED PLYWOOD SHEATHING (P1.1 48/24 MIN), TYP AT ALL MODULES. PROVIDE MIN #10x1.75 SDS OR 0.145 DRIVE PINS w/ 6" E.N., 12" F.N. FROM PLYWOOD SHEATHING TO ROOF FRAME
END NAILING FULL LENGTH OF BEAM
3.5" STEEL TRACK, w/ NOTCHED FLANGES OR CONTINUOUS USED AS BLOCKING TYP

TYP ROOF SHEATHING LAYOUT

SCALE: 1/4" = 1' - 0"


8'-6"
2
S-2.50T
ROOF BEAM @ EACH END, SEE 13/S-2.50T
CS 12/10 x 3 1/2 x 10 GA TAPERED
BLOCKING, SEE 6/S-2.50T
1/4" STIFFENER PLATE AT EACH PURLIN ON SIDE BEAMS
3'-6"
Z 6 x 2 x 14 GA
CS 12 x 3 1/2 x 10 GA
8
S-2.50T
BRACE PER 8/S-2.50T TYP
8
S-2.50T
do
SIM
15'-6"
ROOF PURLINS @ 48" OC
CS 10 x 3 1/2 x 1/x 10 GA
11
S-2.50T
ROOF HEADER, SEE 12/S-2.50T
BEAM SPLICE LOCATION AS NEEDED (SEE DET 7/S2.50T)
Z 6 x 2 x 14 GA
ROOF HEADER, SEE 12/S-2.50T
1
S-2.50T
2
S-2.50T
@ CORNER
CS 12/10 x 3 1/2 x 10 GA TAPERED
1
S-2.50T

8'-6" x 15'-6" ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0"

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PROJECT NAME:

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ROOF FRAMING PLAN

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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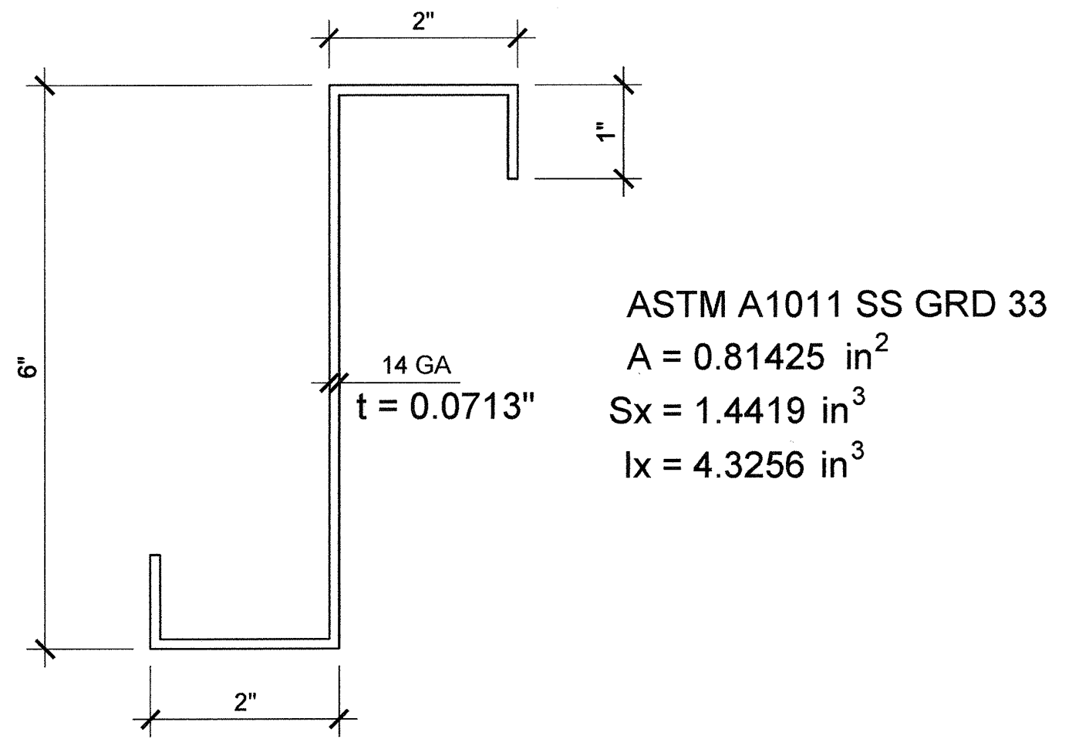
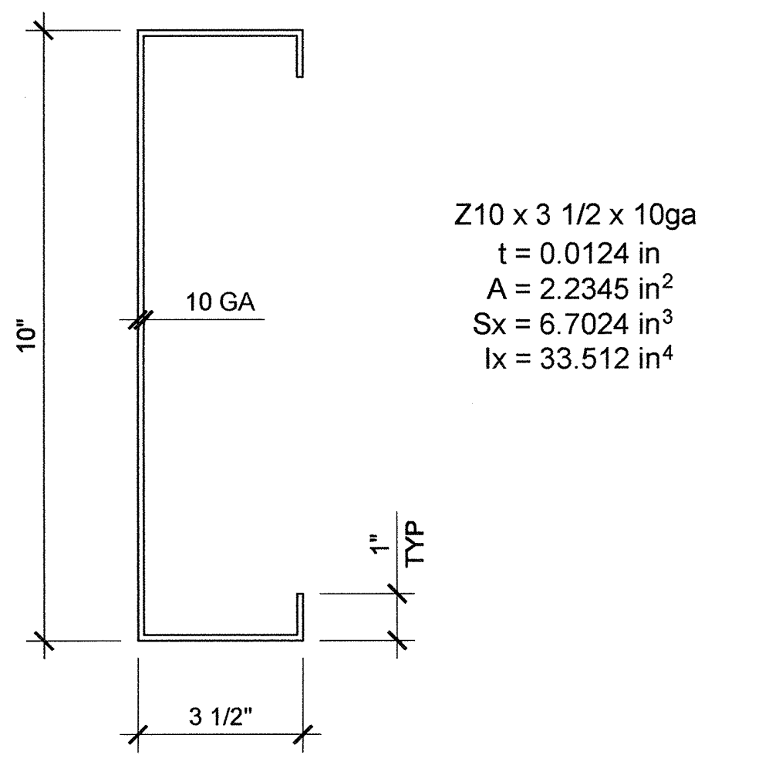
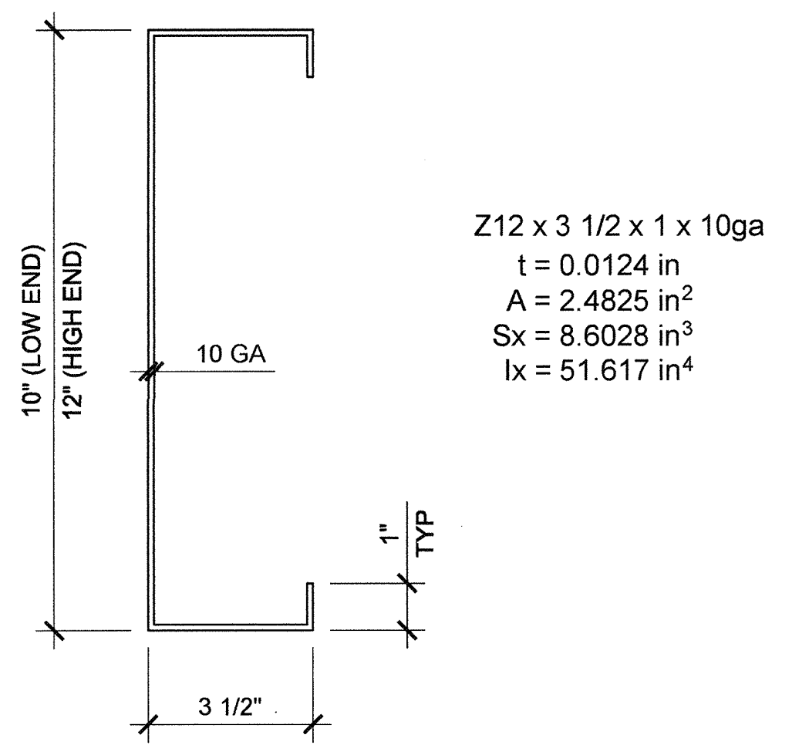


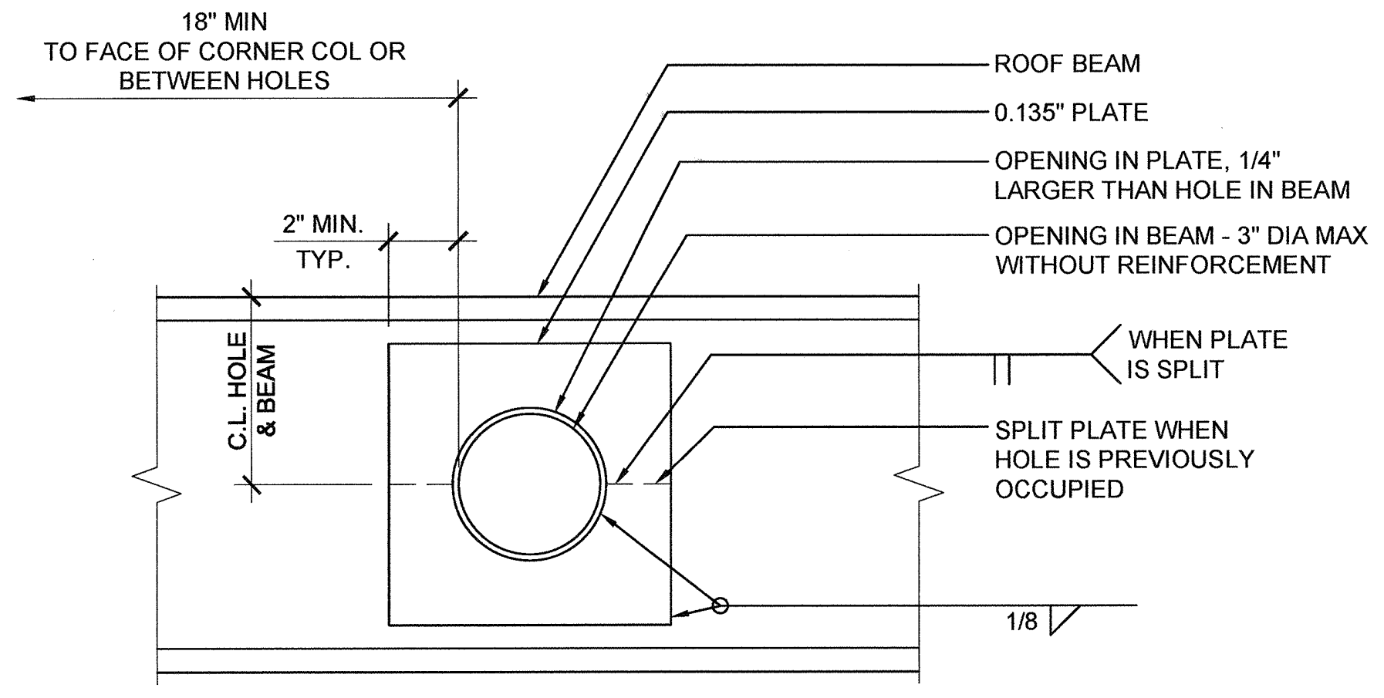
ROOF PURLIN / BLOCKING SCALE : 6"=1'-0" 11



ROOF HEADER SCALE : NTS 12

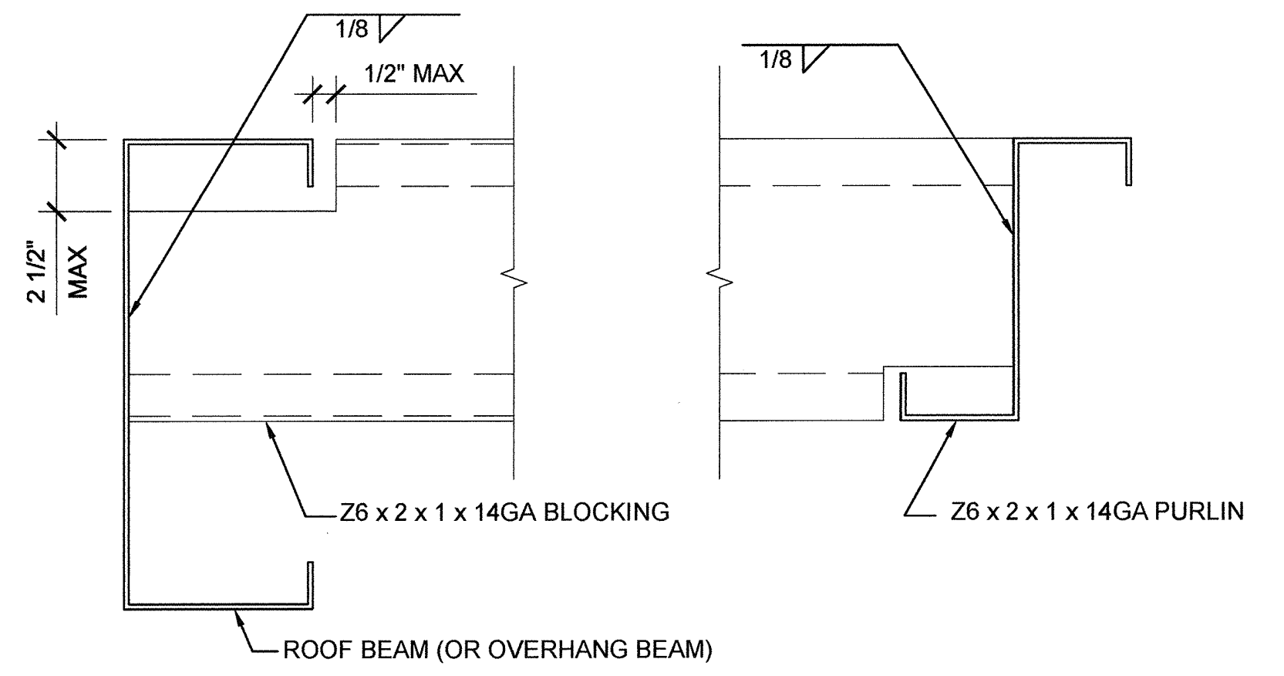


SIDE BEAM SCALE : NTS 13

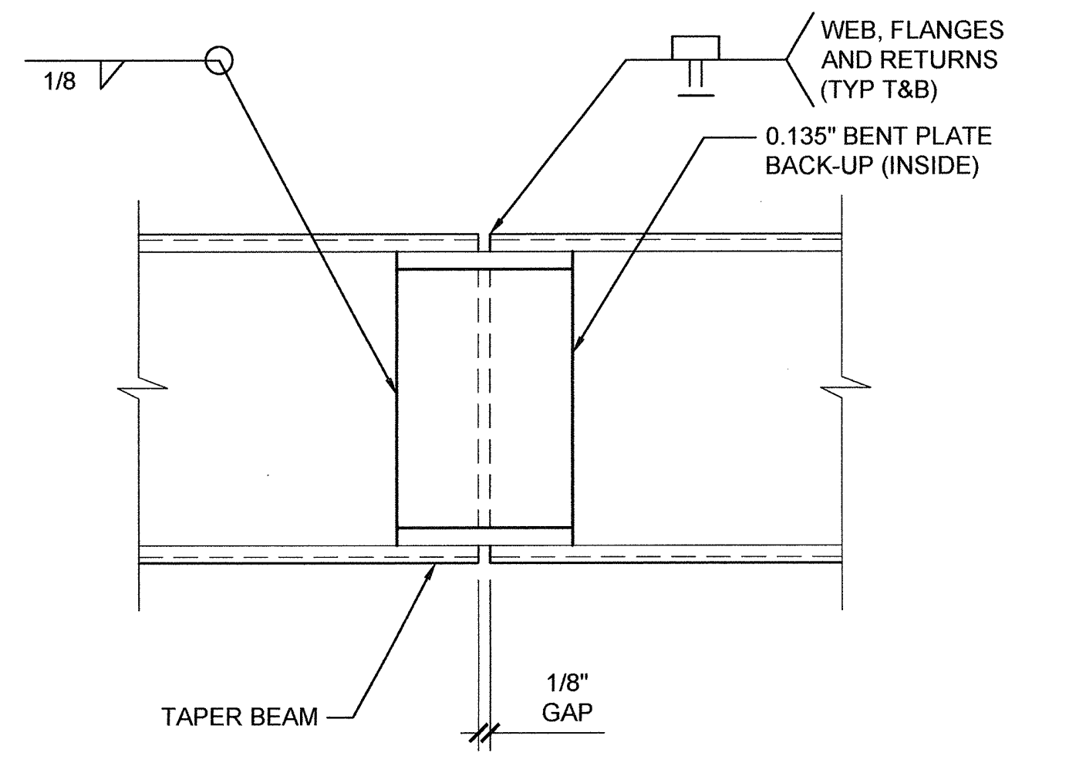

18" MIN
TO FACE OF CORNER COL OR
BETWEEN HOLES
2" MIN.
TYP.
C.L. HOLE & BEAM
ROOF BEAM
0.135" PLATE
OPENING IN PLATE, 1/4" LARGER THAN HOLE IN BEAM
OPENING IN BEAM - 3" DIA MAX WITHOUT REINFORCEMENT
WHEN PLATE IS SPLIT
SPLIT PLATE WHEN HOLE IS PREVIOUSLY OCCUPIED
1/8

SIDEWALL BEAM PENETRATION SCALE : 1 1/2"=1'-0" 14

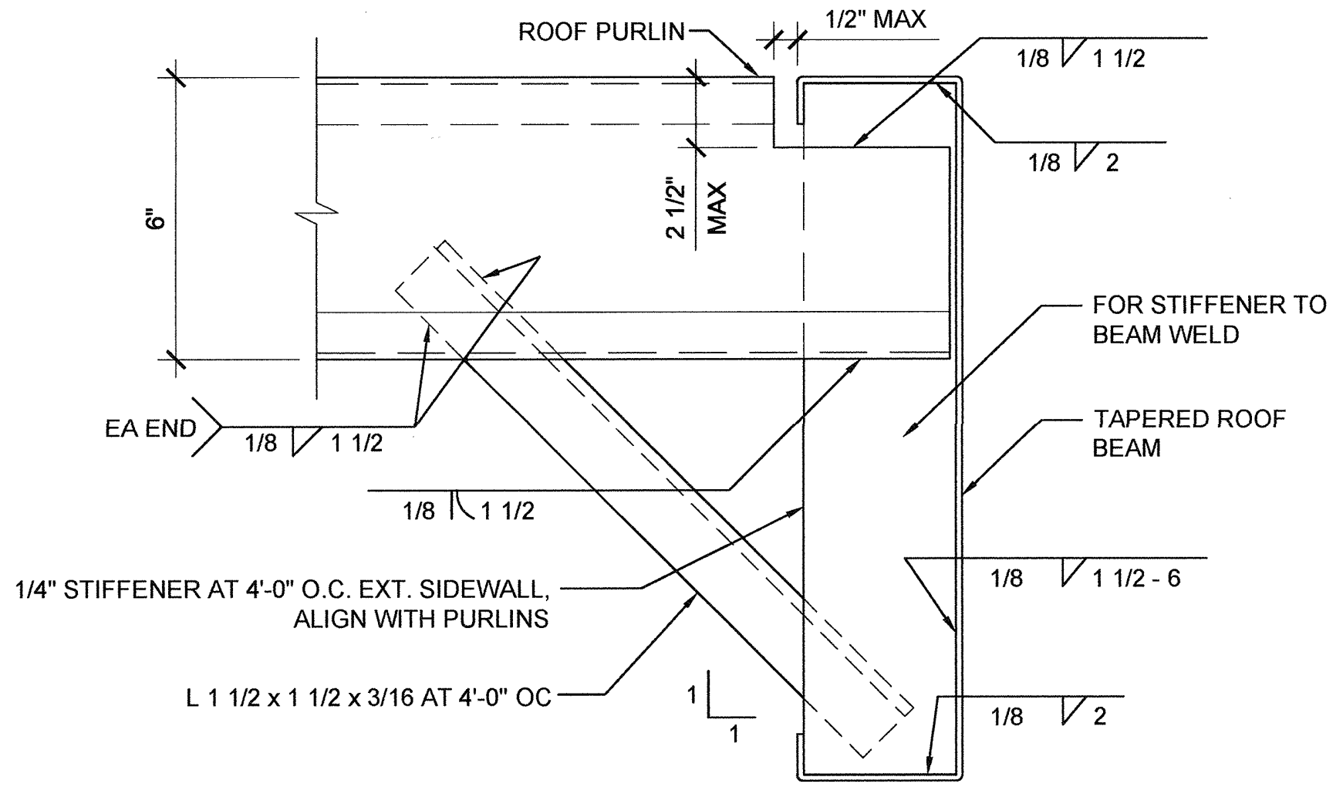
NOT USED 15



PURLIN CONNECTION DETAIL SCALE : 3" = 1'-0" 6


1/8
WEB, FLANGES AND RETURNS (TYP T&B)
0.135" BENT PLATE BACK-UP (INSIDE)
TAPER BEAM
1/8" GAP

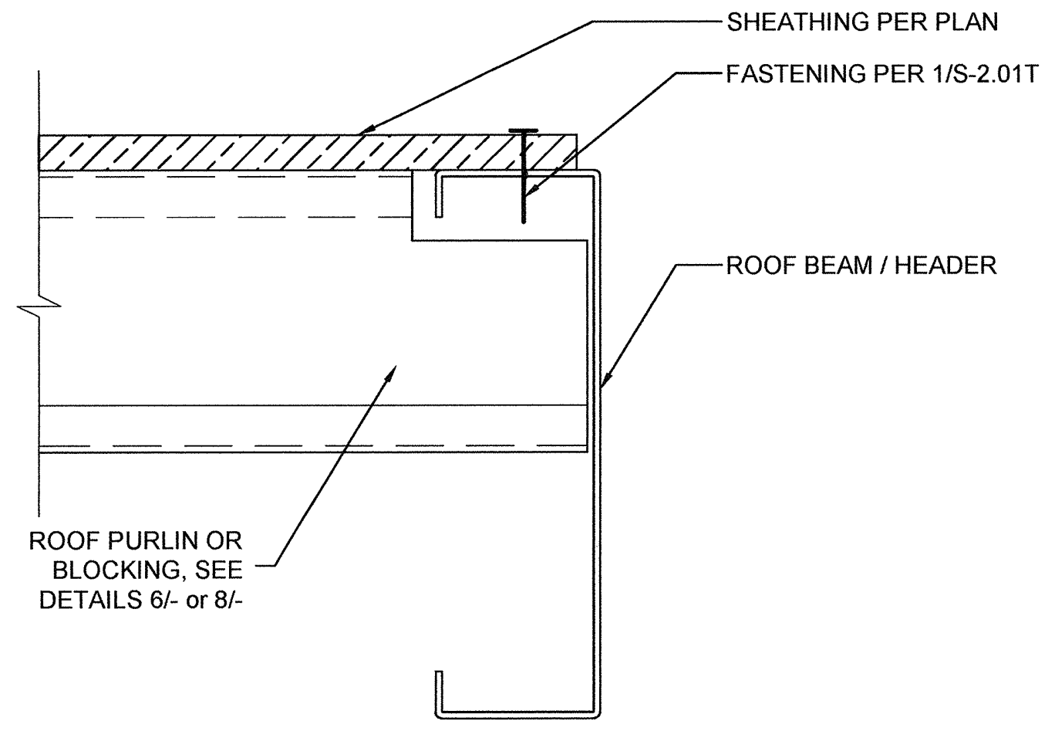
BEAM SPLICE SCALE: 3" = 1'-0" 7


ROOF PURLIN
1/2" MAX
1/8 1 1/2
1/8 2
6"
2 1/2" MAX
FOR STIFFENER TO BEAM WELD
TAPERED ROOF BEAM
EA END
1/8 1 1/2
1/8 1 1/2
1/8 1 1/2 - 6
1/4" STIFFENER AT 4'-0" O.C. EXT. SIDEWALL, ALIGN WITH PURLINS
L 1 1/2 x 1 1/2 x 3/16 AT 4'-0" OC
1
1
1/8 2

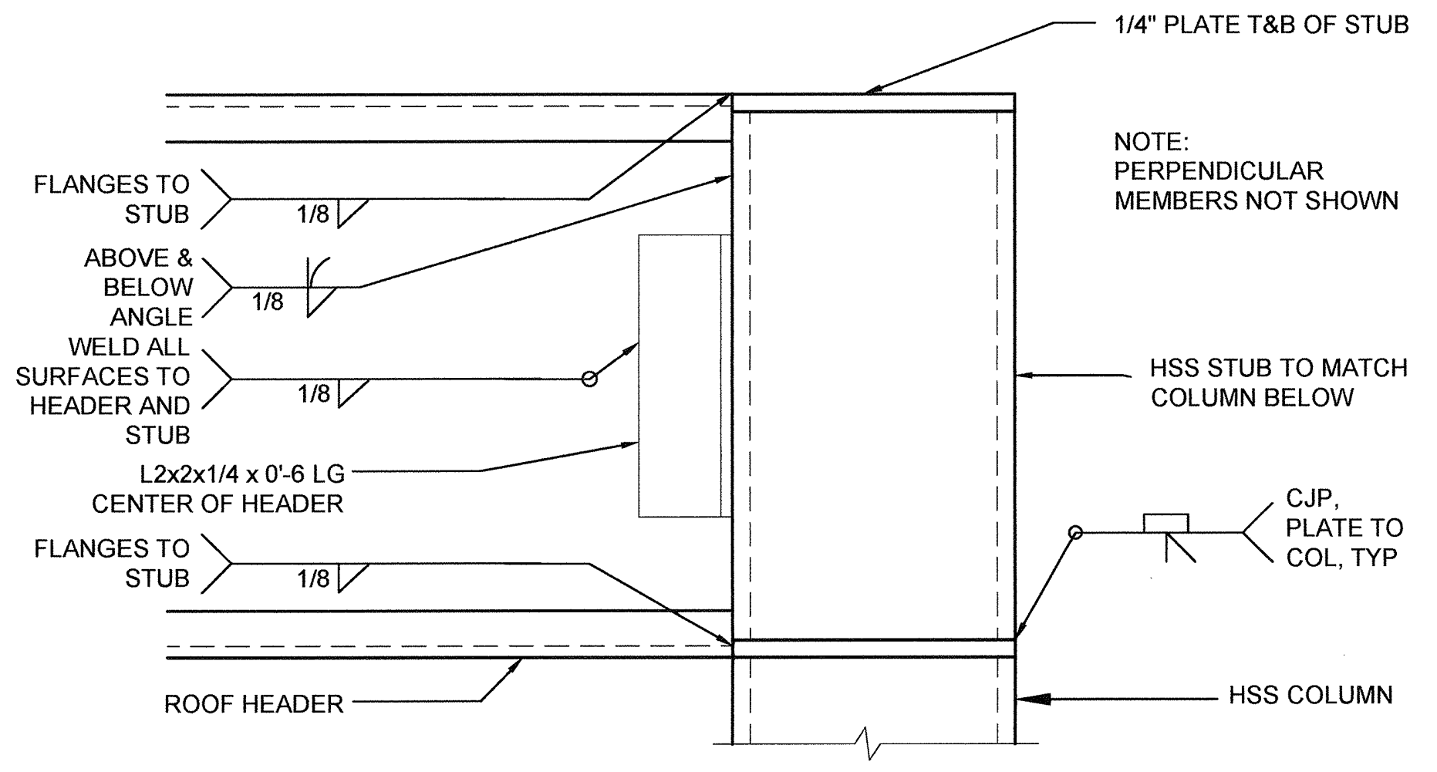
PURLIN TO ROOF BEAM @ STIFFENER SCALE : 3"=1'-0" 8

NOT USED 9

NOT USED 10



PURLIN TO ROOF BEAM SCALE : 3"=1'-0" 1


1/4" PLATE T&B OF STUB
NOTE:
PERPENDICULAR MEMBERS NOT SHOWN
FLANGES TO STUB
1/8
ABOVE & BELOW ANGLE
1/8
WELD ALL SURFACES TO HEADER AND STUB
1/8
L2x2x1/4 x 0'-6 LG CENTER OF HEADER
FLANGES TO STUB
1/8
HSS STUB TO MATCH COLUMN BELOW
CJP, PLATE TO COL, TYP
ROOF HEADER
HSS COLUMN

COLUMN AT ROOF - SECTION SCALE : 3" = 1'-0" 2

NOT USED 3

NOT USED 4

NOT USED 5

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"BUILDING FOR THE NEXT GENERATION"
SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING
DETAILS
MONO SLOPE

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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AC ✓ FLS ✓ SS
Date FEB 0 3 2017

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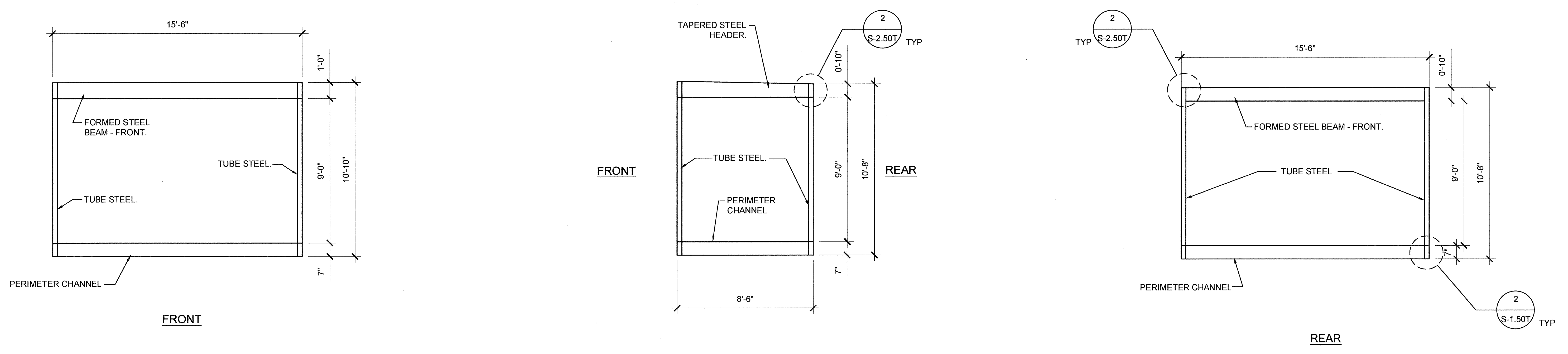
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
S-2.50-T



BUILDING SECTION (8'-6"x15'-6")

SCALE: 1/2" = 1'-0" | 1

NOT USED

2

NOT USED

2

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

WOOD FLOOR

HSS COLUMN SCHEDULE

COL HT	8'-6" x 15'-6" BLDG		
9'-0"	3.5 x 3.5 x 1/4		

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SILVER
CREEK

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING SECTIONS

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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DRAWN BY: FIL CARRILLO
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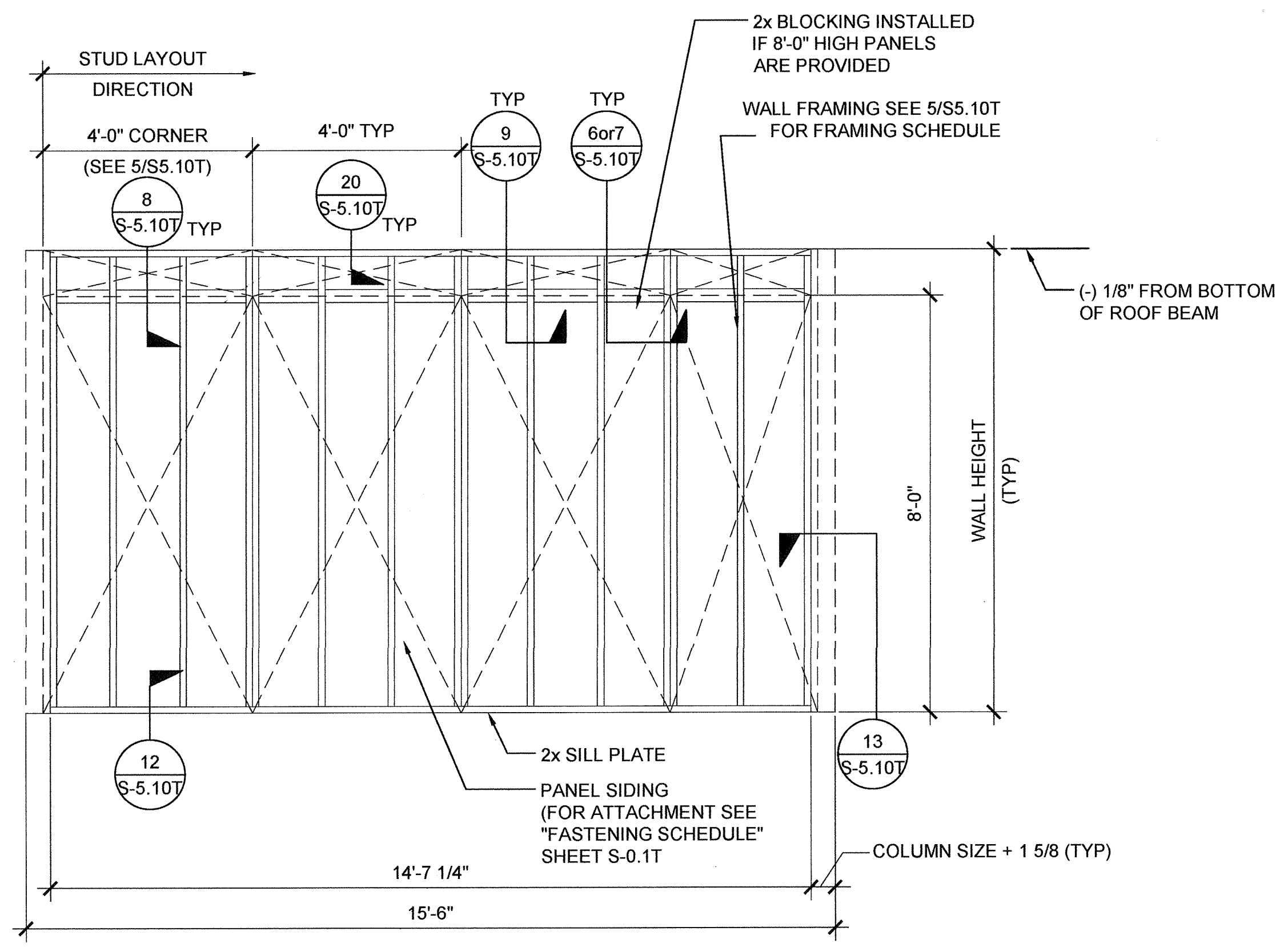
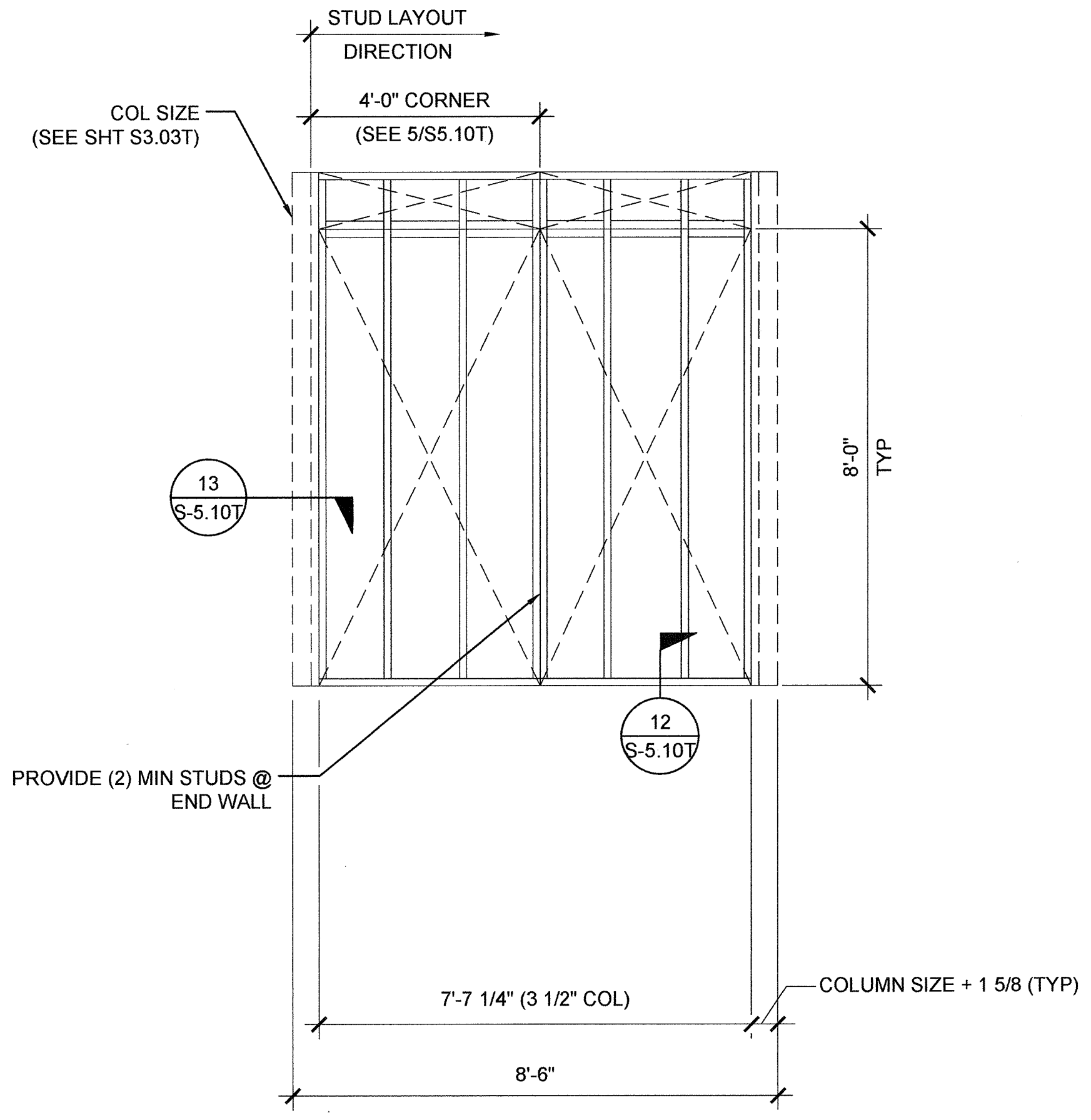
DATE: 02/04/2015

SHEET NUMBER

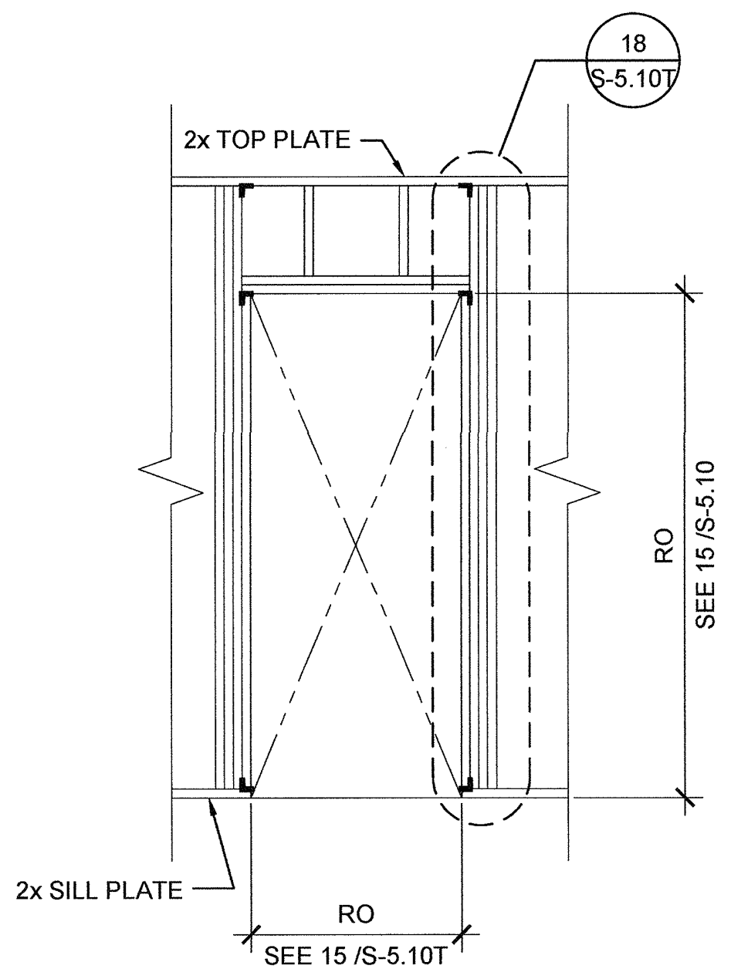
S-3.03-T



15'-6" TYPICAL SIDE WALL



TYPICAL END WALL



TYPICAL DOOR

FRAMING ELEVATIONS

SCALE: 3/8" = 1'-0" 1

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	9'-0"	
WOOD FLOOR	8'-10 3/4"	

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PROJECT NAME:

SHEET TITLE:

FRAMING ELEVATIONS
WOOD STUDS

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

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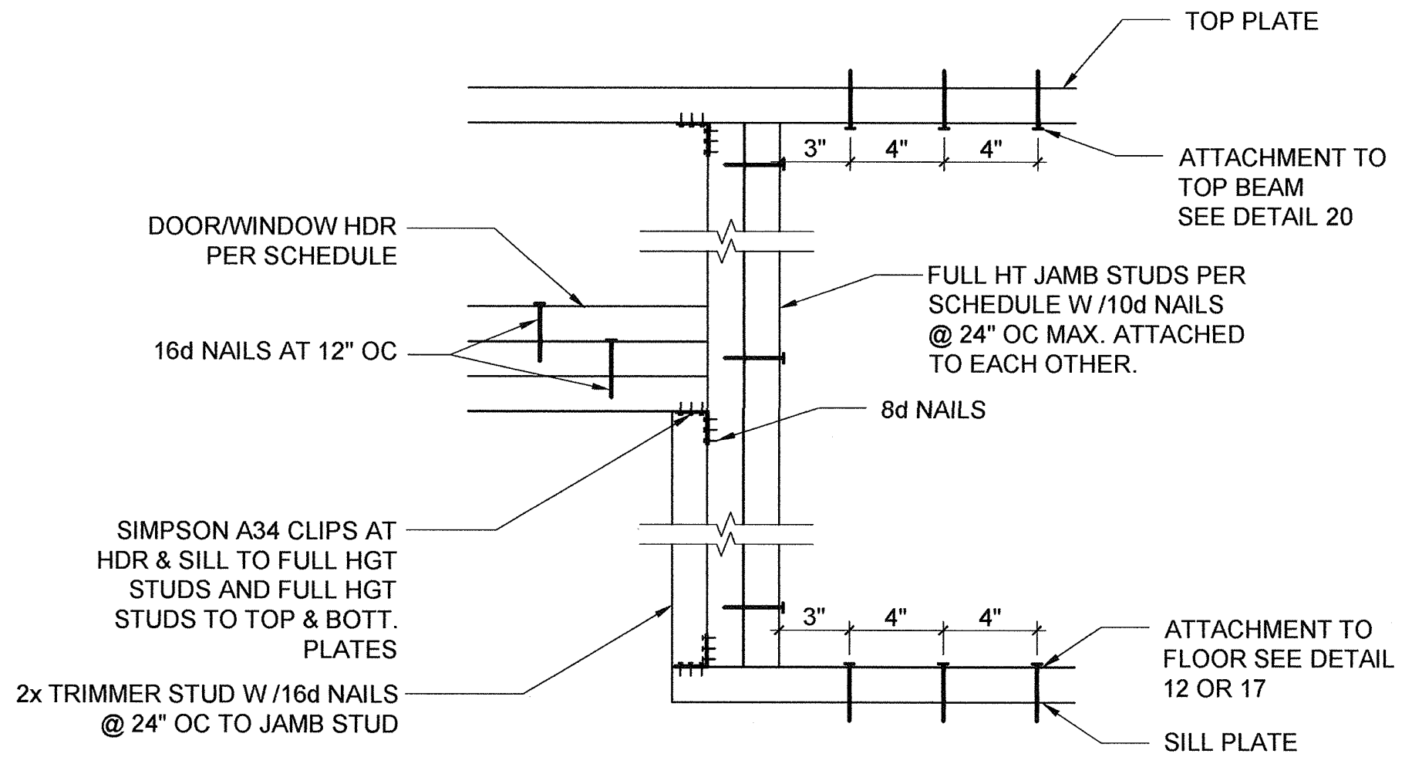
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
S-5.00-T

NOT USED 16

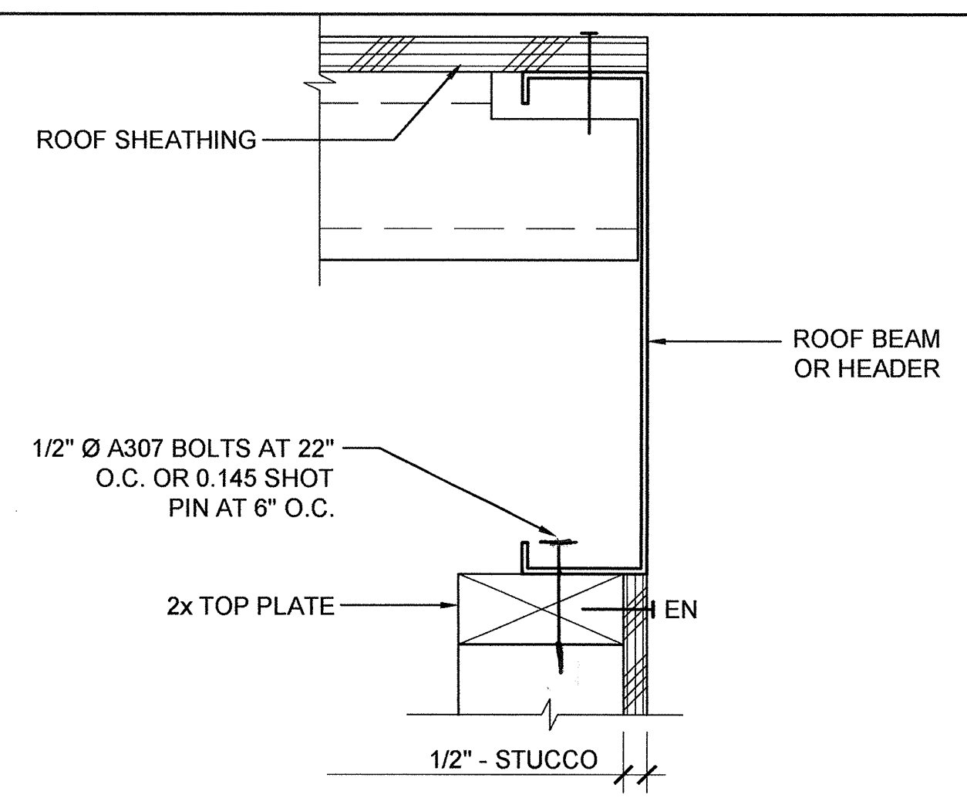
NOT USED 17


TOP PLATE
3"
4"
4"
ATTACHMENT TO TOP BEAM SEE DETAIL 20
DOOR/WINDOW HDR PER SCHEDULE
FULL HT JAMB STUDS PER SCHEDULE W /10d NAILS @ 24" OC MAX. ATTACHED TO EACH OTHER.
16d NAILS AT 12" OC
8d NAILS
SIMPSON A34 CLIPS AT HDR & SILL TO FULL HGT STUDS AND FULL HGT STUDS TO TOP & BOTT. PLATES
3"
4"
4"
ATTACHMENT TO FLOOR SEE DETAIL 12 OR 17
2x TRIMMER STUD W /16d NAILS @ 24" OC TO JAMB STUD
SILL PLATE

DOOR/WINDOW HEADER AND JAMB 18

SCALE : 1 1/2"=1'-0"

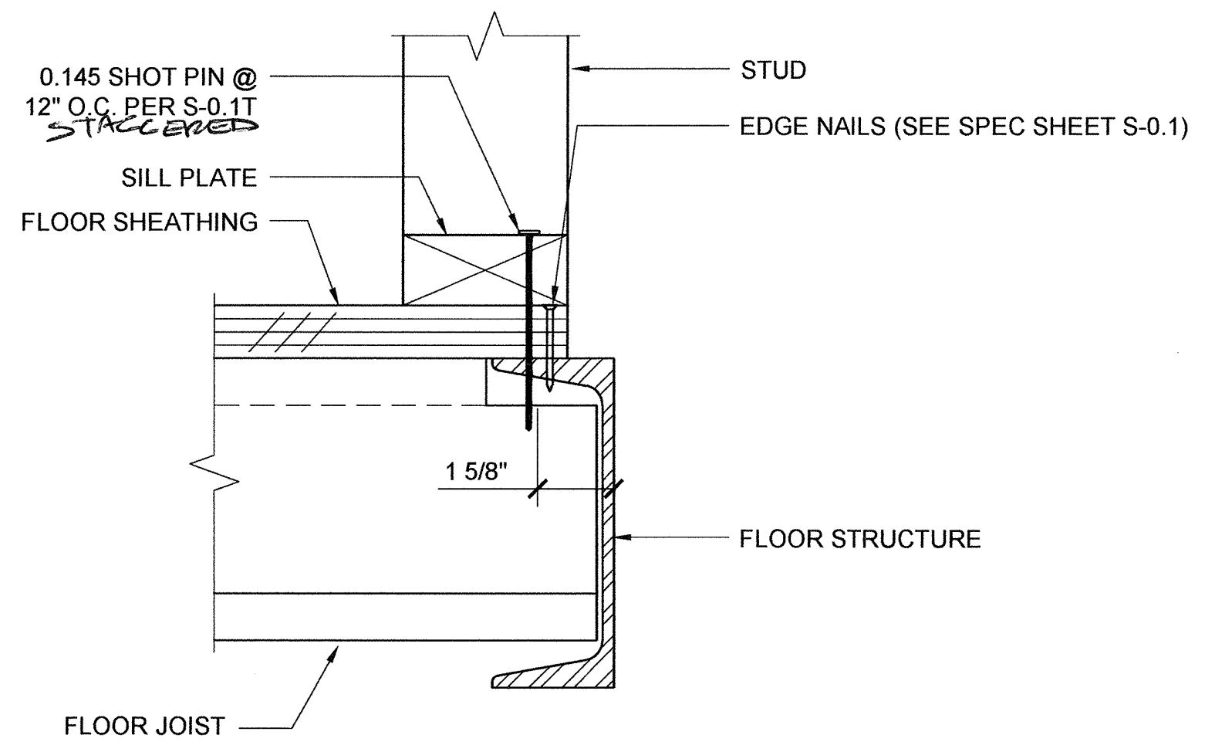
NOT USED 19



TOP PLATE AT ROOF BEAM 20

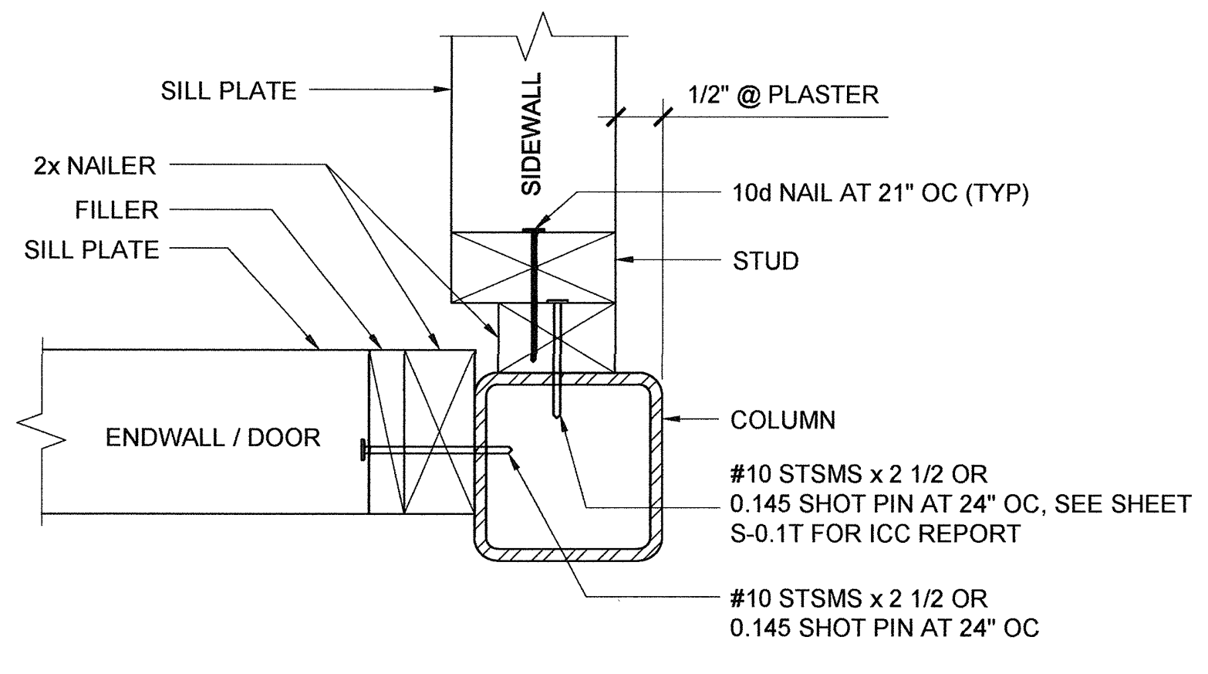
SCALE : 3" = 1'-0"

NOT USED 11



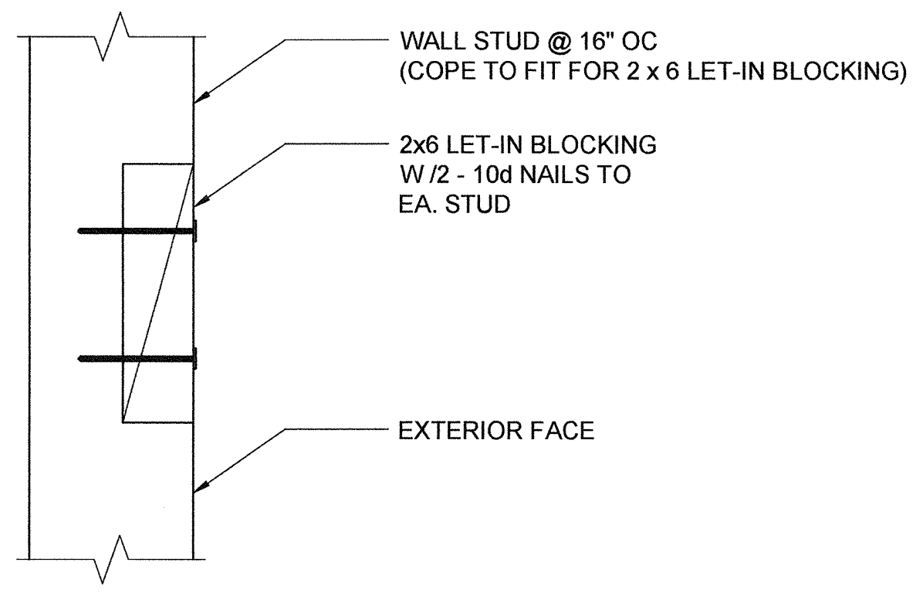
WALL SILL AT WOOD FLOOR 12

SCALE : 3"=1'-0"


SILL PLATE
SIDEWALL
1/2" @ PLASTER
2x NAILER
FILLER
SILL PLATE
10d NAIL AT 21" OC (TYP)
STUD
ENDWALL / DOOR
COLUMN
#10 STSMS x 2 1/2 OR 0.145 SHOT PIN AT 24" OC, SEE SHEET S-0.1T FOR ICC REPORT
#10 STSMS x 2 1/2 OR 0.145 SHOT PIN AT 24" OC

COLUMN AT ENDWALL 13

SCALE : 3"=1'-0"

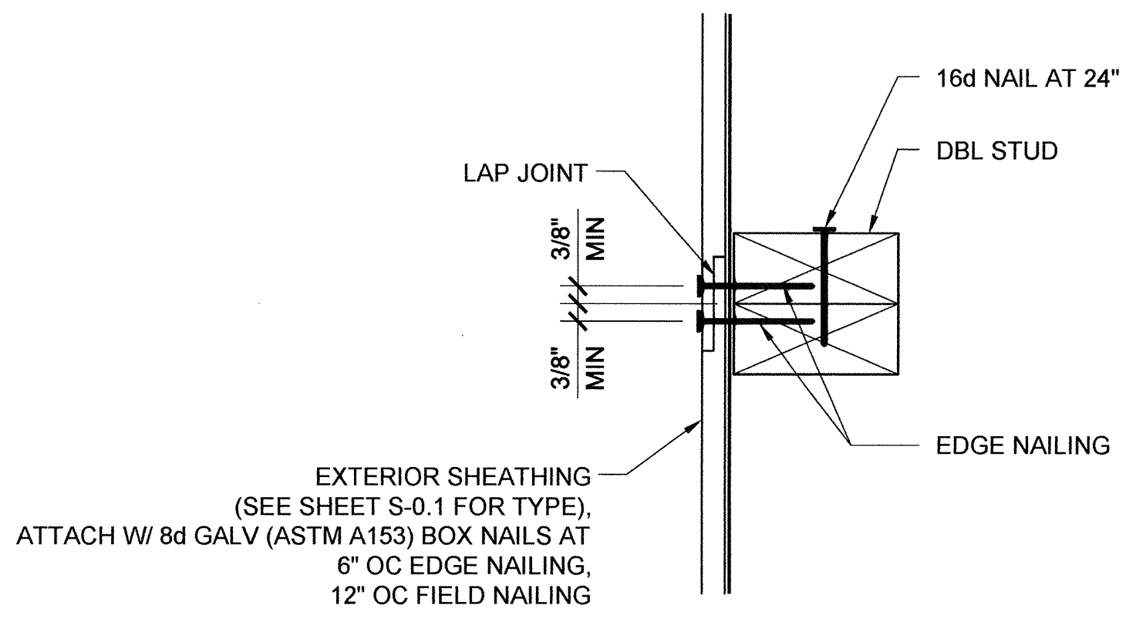

WALL STUD @ 16" OC (COPE TO FIT FOR 2 x 6 LET-IN BLOCKING)
2x6 LET-IN BLOCKING W /2 - 10d NAILS TO EA. STUD
EXTERIOR FACE

LET-IN BLOCK ATTACHMENT 14

SCALE : 3"=1'-0"

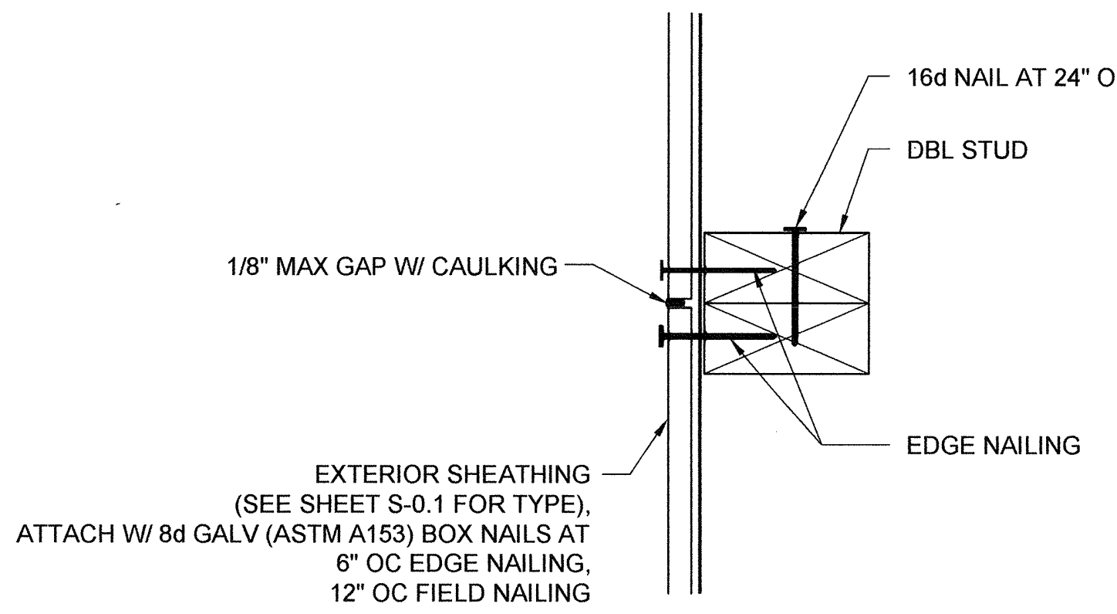
DOOR	WINDOW	☐ STANDARD		☐ WELDED FRAME	
3070		38"	85"	40 1/4"	86 1/4"

ROUGH OPENING SCHEDULE 15


16d NAIL AT 24" OC
DBL STUD
LAP JOINT
3/8" MIN
3/8" MIN
EDGE NAILING
EXTERIOR SHEATHING (SEE SHEET S-0.1 FOR TYPE), ATTACH W/ 8d GALV (ASTM A153) BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING

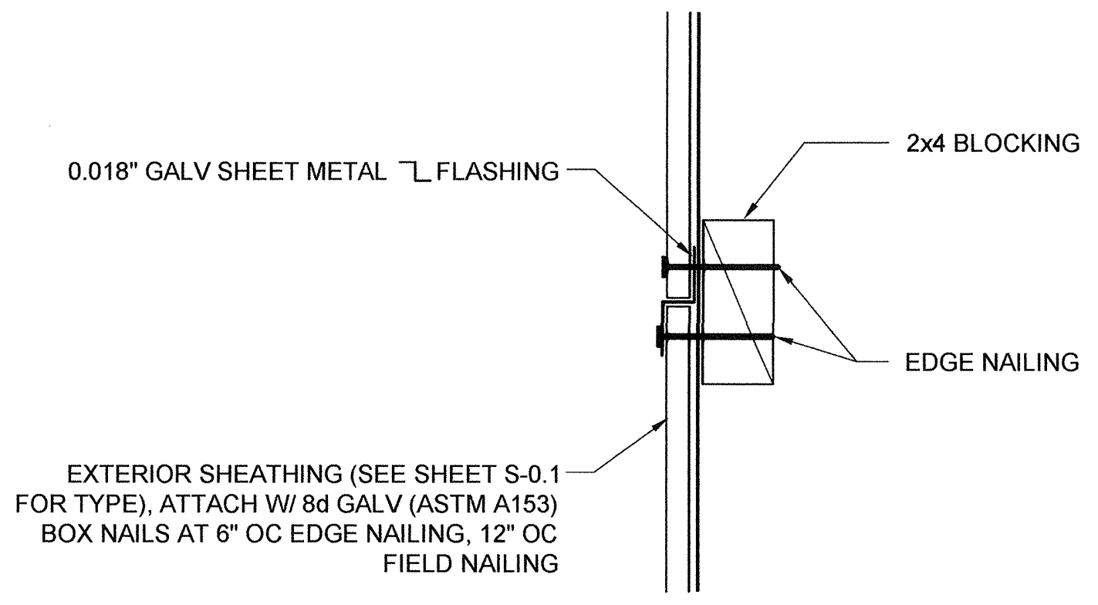
VERTICAL SHEATHING LAP JOINT 6

SCALE : 3"=1'-0"


16d NAIL AT 24" OC
DBL STUD
1/8" MAX GAP W/ CAULKING
EDGE NAILING
EXTERIOR SHEATHING (SEE SHEET S-0.1 FOR TYPE), ATTACH W/ 8d GALV (ASTM A153) BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING

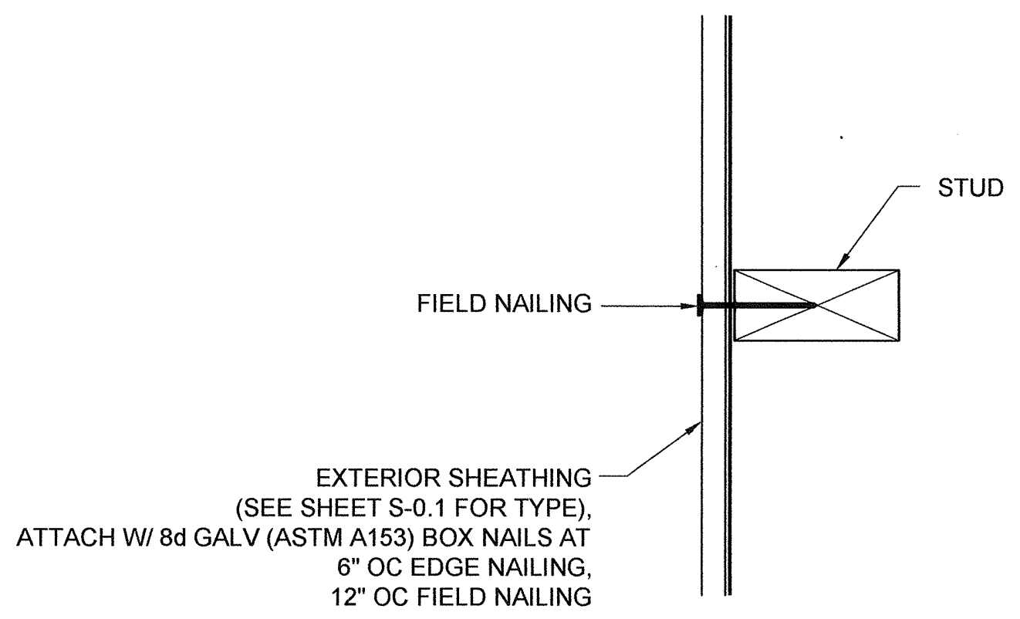
VERTICAL SHEATHING BUTT JOINT 7

SCALE : 3"=1'-0"


0.018" GALV SHEET METAL ⅂L FLASHING
2x4 BLOCKING
EDGE NAILING
EXTERIOR SHEATHING (SEE SHEET S-0.1 FOR TYPE), ATTACH W/ 8d GALV (ASTM A153) BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING

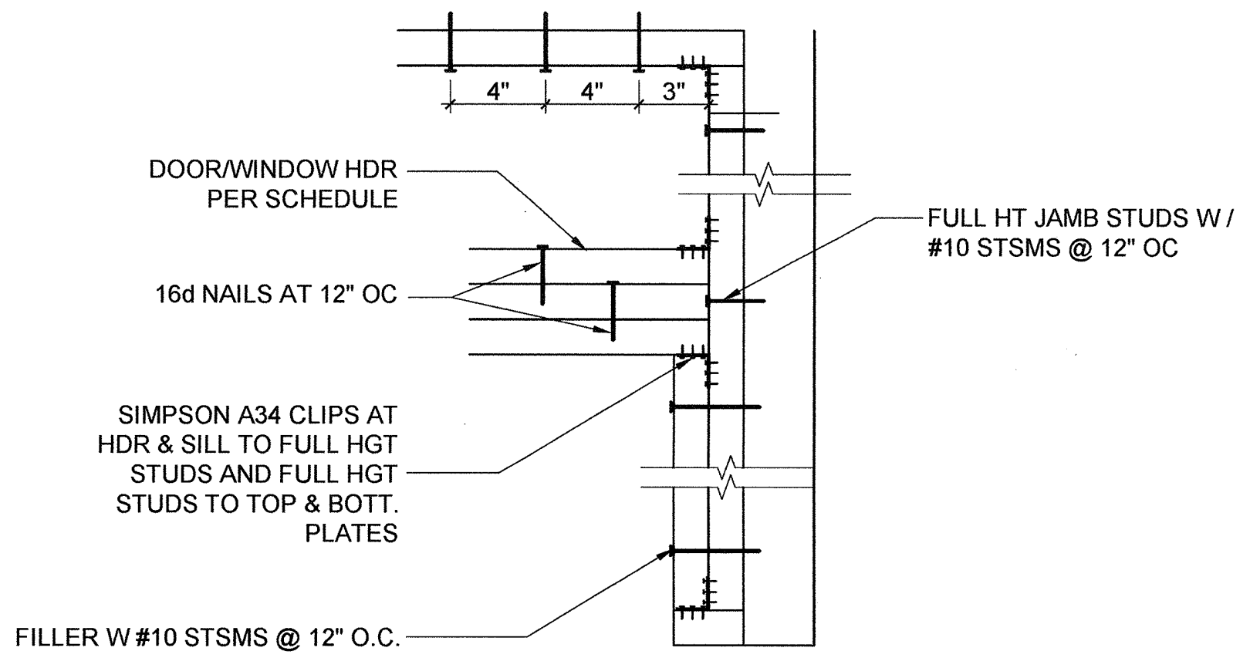
HORIZONTAL SHEATHING JOINT 8

SCALE : 3"=1'-0"


STUD
FIELD NAILING
EXTERIOR SHEATHING (SEE SHEET S-0.1 FOR TYPE), ATTACH W/ 8d GALV (ASTM A153) BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING

SECTION AT SHEATHING TO STUD ATTACHMENT 9

SCALE : 3"=1'-0"


4"
4"
3"
DOOR/WINDOW HDR PER SCHEDULE
16d NAILS AT 12" OC
FULL HT JAMB STUDS W / #10 STSMS @ 12" OC
SIMPSON A34 CLIPS AT HDR & SILL TO FULL HGT STUDS AND FULL HGT STUDS TO TOP & BOTT. PLATES
FILLER W #10 STSMS @ 12" O.C.

DOOR/WINDOW HEADER @ COLUMN 10

SCALE : 1 1/2"=1'-0"

NOT USED 1

2

		EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
COLUMN HEIGHT	OPENING SIZE		NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
9'-0"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(1)	2X4	DF	#2
		W/ PLASTER	(1)	2X4	HF	#2		N/A			(3)	2X4	HF	#2
		W/ PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2

OPENING STUDS SCHEDULE - 100 MPH

	EXT FINISH	WOOD WALL FRAMING					4' CORNER OF WOOD WALL FRAMING (ZONE 5)				
COLUMN HEIGHT		NUMBER **	SIZE **	LUMBER	TYPE	OC	NUMBER **	SIZE **	LUMBER	TYPE	OC
9'-0"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
	W/ PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC

WALL FRAMING SCHEDULE - 100 MPH

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

MANNY D. FRISCH
No. S3350
RST#15008
01/23/2017

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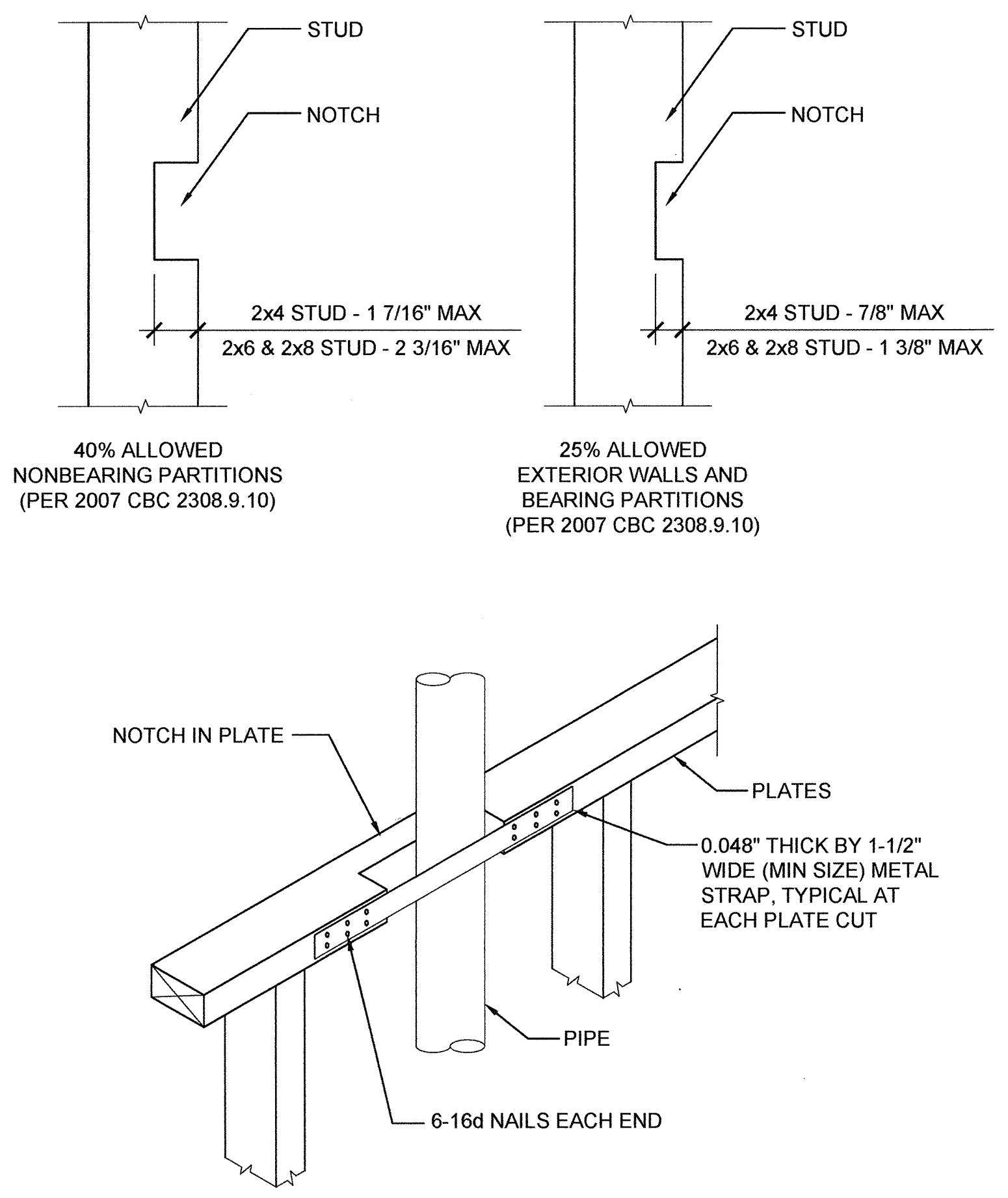
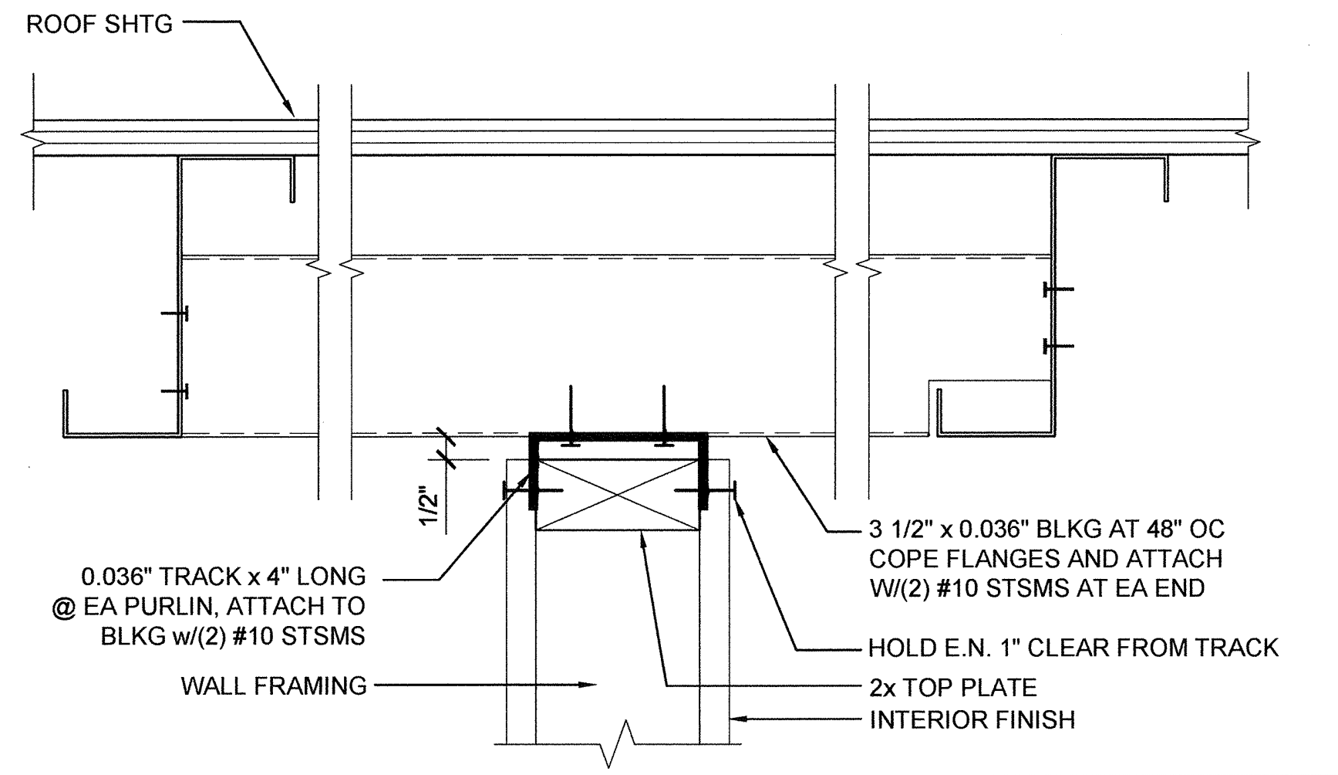
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
S-5.10-T


STUD
NOTCH
2x4 STUD - 1 7/16" MAX
2x6 & 2x8 STUD - 2 3/16" MAX
STUD
NOTCH
2x4 STUD - 7/8" MAX
2x6 & 2x8 STUD - 1 3/8" MAX
NOTCH IN PLATE
PLATES
0.048" THICK BY 1-1/2" WIDE (MIN SIZE) METAL STRAP, TYPICAL AT EACH PLATE CUT
PIPE
6-16d NAILS EACH END

40% ALLOWED
NONBEARING PARTITIONS
(PER 2007 CBC 2308.9.10)

25% ALLOWED
EXTERIOR WALLS AND
BEARING PARTITIONS
(PER 2007 CBC 2308.9.10)

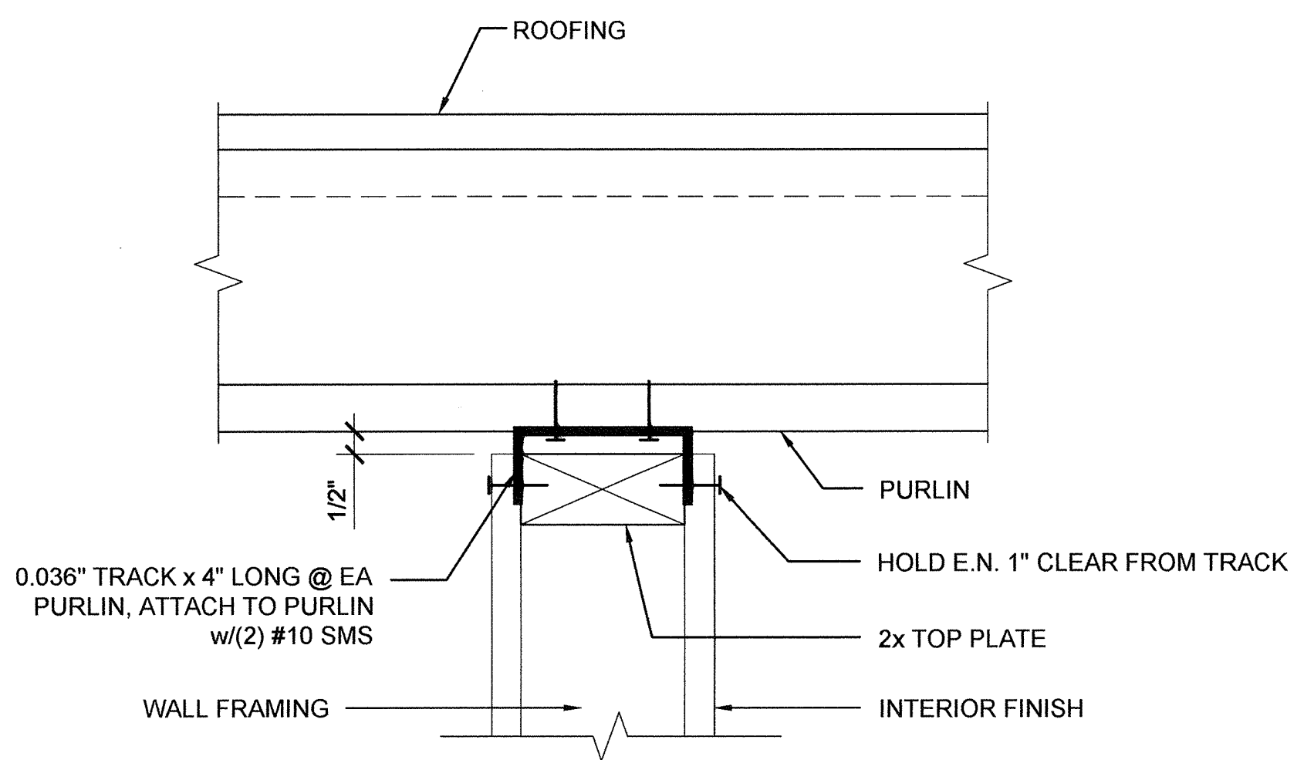

ROOF SHTG
1/2"
0.036" TRACK x 4" LONG @ EA PURLIN, ATTACH TO BLKG w/(2) #10 STSMS
WALL FRAMING
3 1/2" x 0.036" BLKG AT 48" OC COPE FLANGES AND ATTACH W/(2) #10 STSMS AT EA END
HOLD E.N. 1" CLEAR FROM TRACK
2x TOP PLATE
INTERIOR FINISH

NOT USED

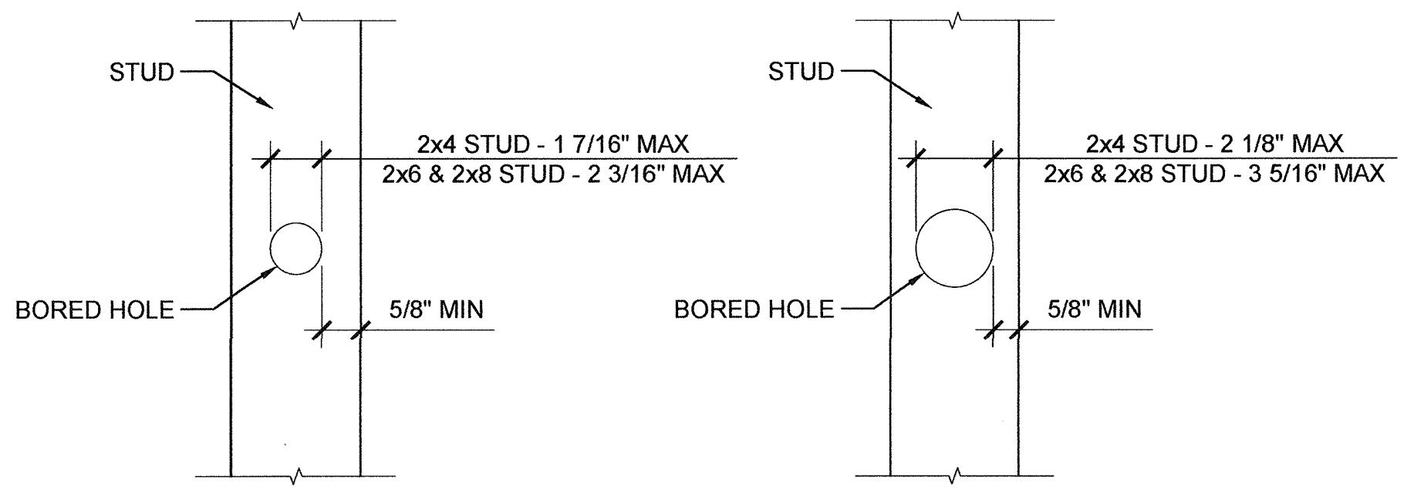
NOT USED

CUTTING AND NOTCHING SCALE : 1 1/2" = 1'-0" 7

FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 1


ROOFING
1/2"
0.036" TRACK x 4" LONG @ EA PURLIN, ATTACH TO PURLIN w/(2) #10 SMS
WALL FRAMING
PURLIN
HOLD E.N. 1" CLEAR FROM TRACK
2x TOP PLATE
INTERIOR FINISH

FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 2



40% ALLOWED
ANY WALL
(PER 2013 CBC 2308.9.11)

60% ALLOWED IN ANY NONBEARING PARTITIONS
OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED
BORED HOLE NOT PERMITTED IN MORE THAN TWO
SUCCESSIVE DOUBLED STUDS
(PER 2013 CBC 2308.9.11)

NOT USED

NOT USED

BORED HOLES SCALE : 1 1/2" = 1'-0" 8

NOT USED 3

NOT USED

NOT USED

NOT USED 9

NOT USED 4

NOT USED

NOT USED

NOT USED 10

NOT USED 5

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CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING
DETAILS
WOOD STUDS

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS ✓ SS
Date FEB 0 3 2017

REVISIONS
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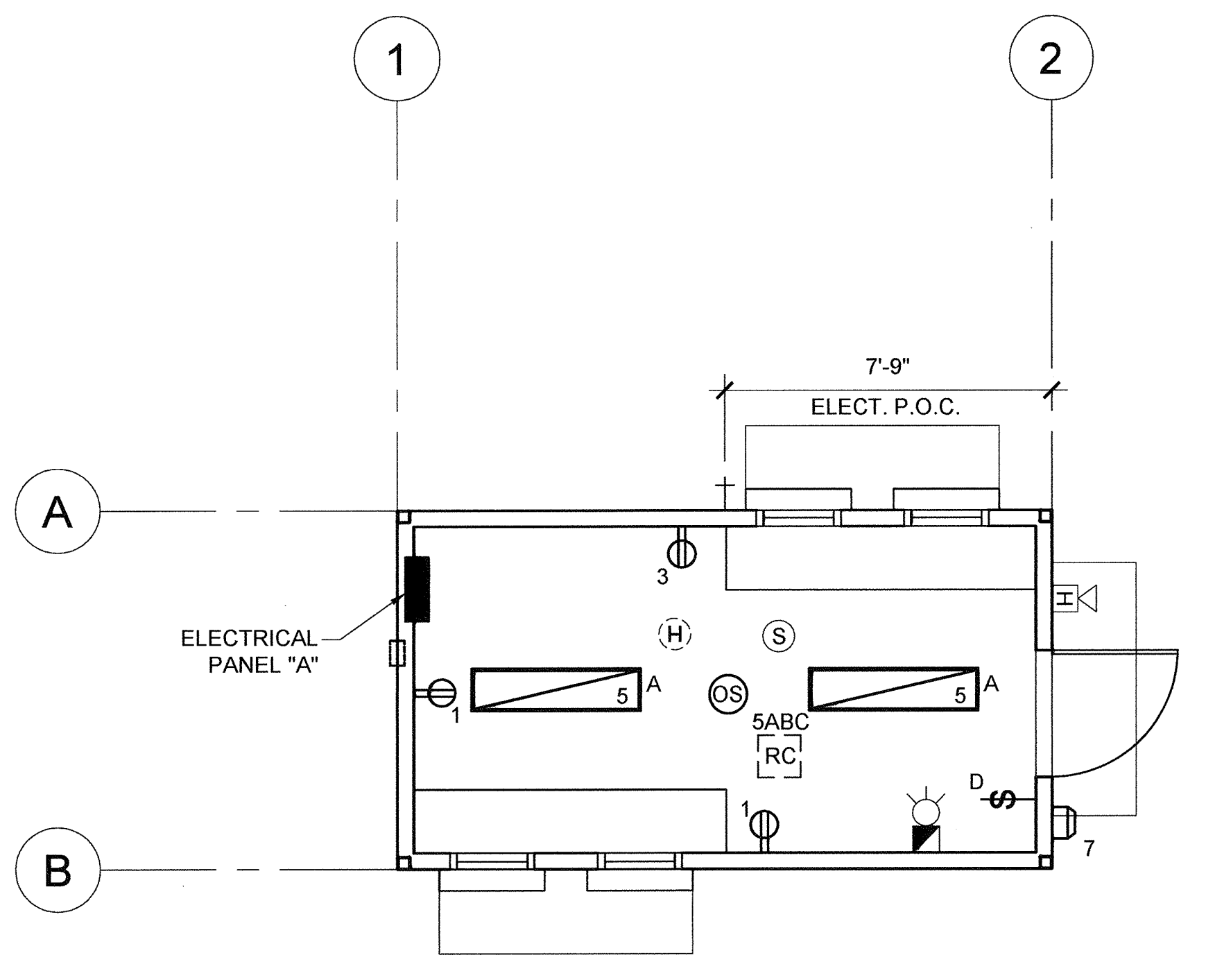
PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER
S-5.11-T



NOTES

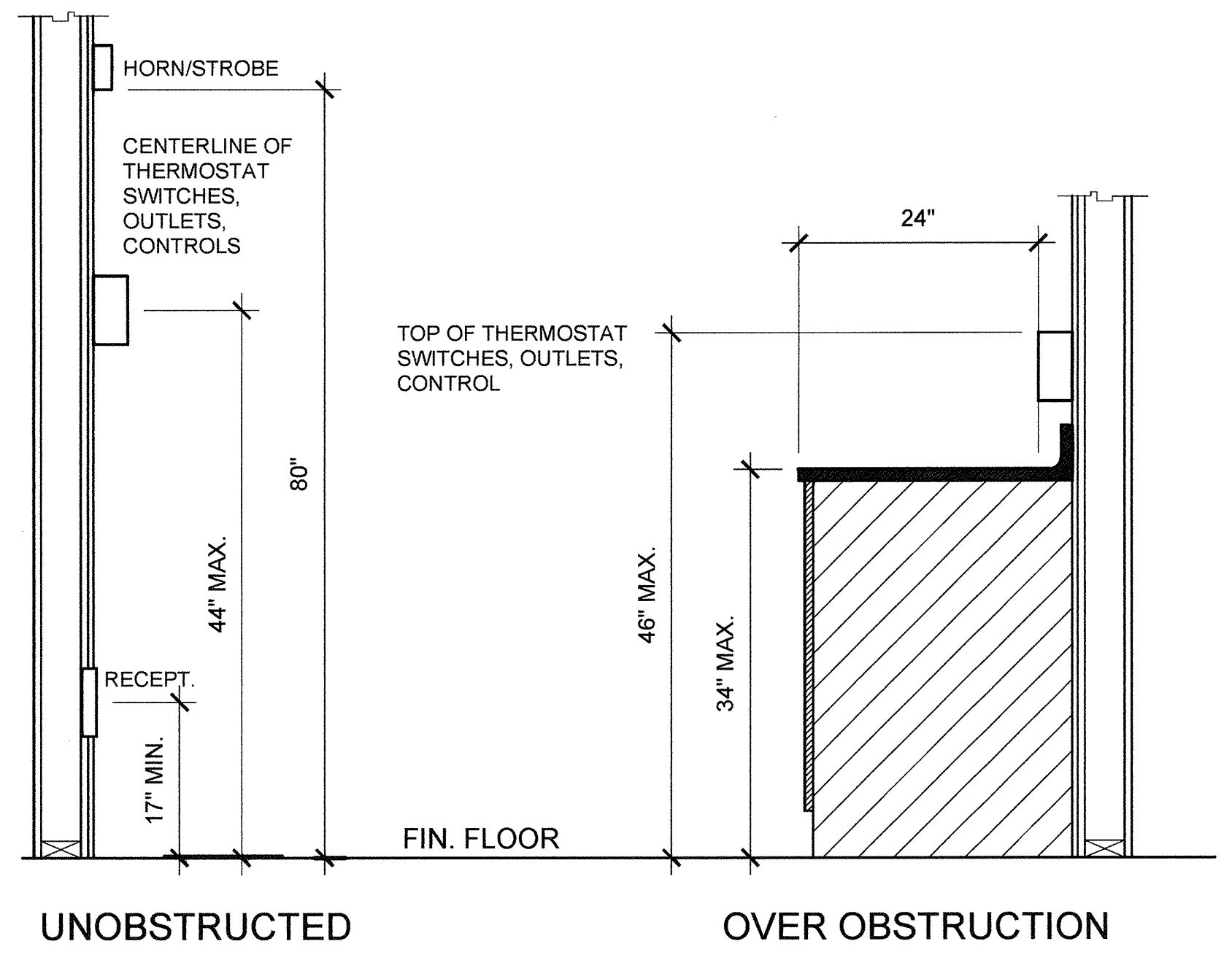
1. FOR COMPLETE ELECTRICAL AND FIRE ALARM SYSTEM, SEE ARCHITECT PLANS.
2. SUSPENDED CEILING SYSTEM NOT SHOWN FOR CLARITY ONLY AND NOT INTENDED FOR SPECIFIC PROJECT USE.

ELECTRICAL PLAN (8'-6" X 15'-6")

SCALE:1/4" = 1'-0"

ELECTRICAL PANEL

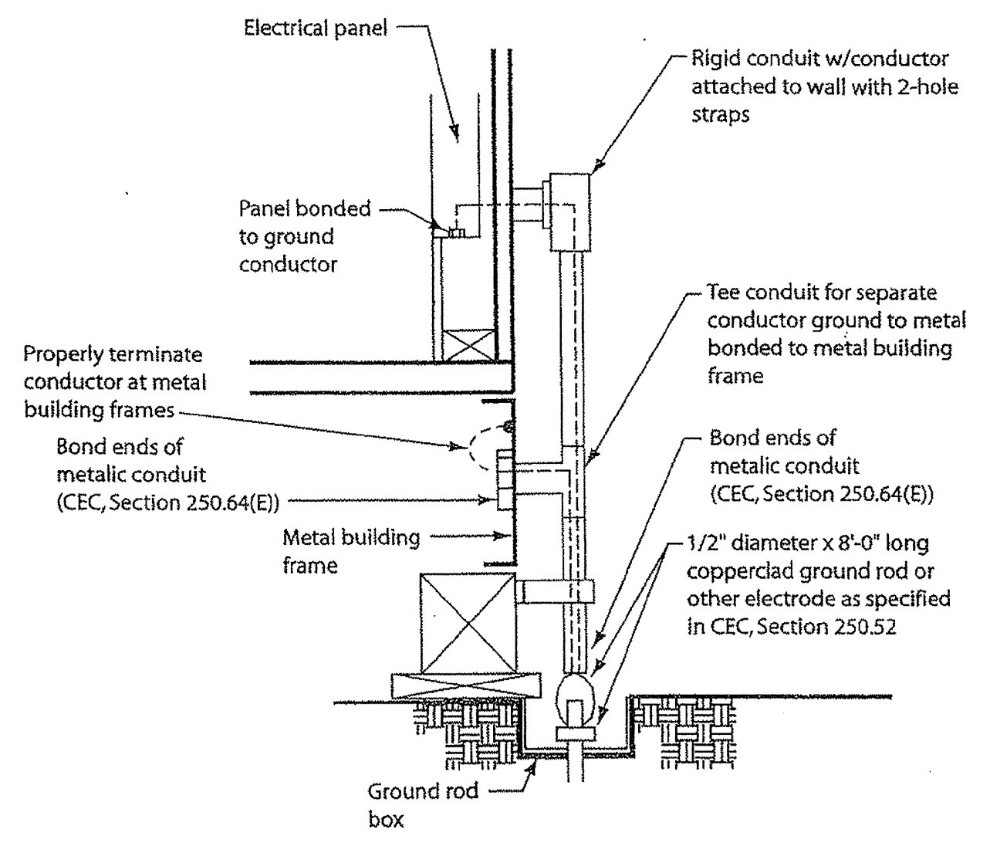
VOLTS: 120/208 V						PANEL: "B"								FEED: BOTTOM	
MAIN: 100A						LOCATION: INTERIOR ACCESS								MOUNTING: FLUSH	
LOAD	QTY	WATTS		BREAKER		Circuit	A ○	B ○	Circuit	BREAKER		WATTS		QTY	LOAD
		AØ	BØ	Amps	P					Amps	P	AØ	BØ		
EEMAX		3250		30	2	1	●		2	20	1	183			LIGHTS/FAN
-			3250		-	3		●	4	20	1		183		LIGHTS/FAN
						5	●		6	20	1	150			EXTERIOR LIGHTS
						7		●	8	20	1		360		RECEPT.
						9	●		10						
						11		●	12						
A = 3583 WATTS / PHASE		3250	3250									333	543		B = 3793 WATTS / PHASE
TOTAL = 7376 WATTS		30.73 AMPS				120/208 VOLTS					1 Ø		3 WIRE		


HORN/STROBE
CENTERLINE OF THERMOSTAT SWITCHES, OUTLETS, CONTROLS
RECEPT.
17" MIN.
44" MAX.
80"
FIN. FLOOR
TOP OF THERMOSTAT SWITCHES, OUTLETS, CONTROL
24"
46" MAX.
34" MAX.

UNOBSTRUCTED

OVER OBSTRUCTION

TYPICAL MOUNTING HEIGHTS


Electrical panel
Rigid conduit w/conductor attached to wall with 2-hole straps
Panel bonded to ground conductor
Tee conduit for separate conductor ground to metal bonded to metal building frame
Properly terminate conductor at metal building frames
Bond ends of metalic conduit (CEC, Section 250.64(E))
Bond ends of metalic conduit (CEC, Section 250.64(E))
Metal building frame
1/2" diameter x 8'-0" long copperclad ground rod or other electrode as specified in CEC, Section 250.52
Ground rod box

1. Size of conductors shall comply with CEC Table 250.66
2. Bond separate conductors from ground rod to electrical panel and to metal building frame (CEC 250.52). In addition to the detail shown above, bond the electrical ground to metal underground water pipe in direct contact with the earth for 10 ft. or more, if available (CEC 250.52).
3. **Not used**
4. Check resistance to ground. If resistance exceeds 25 ohms, install additional ground rod greater than six feet away (CEC 250.56). Once the second ground rod is installed, additional ground resistance testing is not required.
5. Where modular buildings are grouped together, a ground rod may be installed at the end buildings and a ground ring may be installed between them. Each intermediate modular building may be bonded to that ground ring. Where this method is used, ground resistance testing shall not be required.
6. Where modular buildings are installed on concrete foundations, a UFER ground shall be installed in the footing per [CEC 250.52 (A)(3)].
7. Other grounding methods identified in CEC 250 shall be acceptable means to achieve adequate grounding of metal buildings in compliance with the above.

GROUNDING DETAIL (BY OWNER)

1. SMOKE AND HEAT DETECTOR SHALL BE CONNECTED TO FIRE ALARM SYSTEM BY OTHERS
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 4.4.1.4.2.2

LEGEND

▭	'CRESCENT' MODEL #14GP232FSA11K2Y, 1'x4' FLUORESCENT RECESSED MOUNT ACRYLIC PRASMATIC LENS, ELECTRONIC BALLAST, (1) 32 WATT T-8 TUBES.
☼	4SD J-BOX FOR FIRE ALARM STROBE (DEVICE BY OTHERS). MOUNT AT +80" AFF TO BOTTOM OF DEVICE WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING
$	SWITCH AT +44" A.F.F. (OPTIONAL APPLICATION)
WS1	OCCUPANCY MOTION SENSOR DEVICE, OCS15-ID @ +44" (STANDARD APPLICATION)
▭	EXTERIOR LIGHT FIXTURE. MOUNT AT +93" AFF w/ 90 MINUTE EMERGENCY BATTERY BACKUP
H	FIRE ALARM HORN (WATERPROOF) J-BOX ONLY W/ 3/4"Ø CONDUIT, +90" A.F.F.
◩	FIRE ALARM PULL STATION (J-BOX ONLY) +44" A.F.F.
Ⓢ	SMOKE DETECTOR J-BOX ONLY W/ 3/4"Ø CONDUIT @ CEILING
Ⓗ	HEAT DETECTOR J-BOX ONLY W/ 3/4"Ø CONDUIT IN ATTIC SPACE
⦶	110V RECEPTACLE 20 AMP SPECIFICATION GRADE @ +15" A.F.F. UNLESS NOTED OTHERWISE.
GFCI ⦶	120 V - GROUND FAULT CIRCUUIT INTERRUPTOR (GFCI) RECEPT, 20 AMPS @ +44" A.F.F. UNLESS NOTED OTHERWISE.
▭	100 AMP RECESSED ELECTRICAL PANEL
◪	'BROAN', MODEL 676, EXHUAST FAN OR EQUAL - 110 CFM
~	CONDUIT

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SILVER CREEK INDUSTRIES, INC.
"BUILDING FOR THE NEXT GENERATION"
SILVER
CREEK
2830 BARRETT AVE. PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULES
(8'-6"x15'-6")

C-33467
REN 01-31-2017

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS ✓ SS
Date FEB 0 3 2017

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PROJECT NO:
DRAWN BY: FIL CARRILLO
SCALE: AS NOTED
DATE: 02/04/2015

SHEET NUMBER

E-1.01

MODULAR TOILET
AND CONCESSION BUILDINGS
12'x40' AND 12'x60' MODULES

BY

SILVER CREEK INDUSTRIES, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211

EL MONTE UNIFIED SCHOOL DISTRICT

EL MONTE CA

SCI PROJECT NO. 10644

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2013 CBC 705.3
3. THIS BUILDING IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. THIS BUILDING IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS BUILDING IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2013 CBC.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1406.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIF AMENDED) 2013 EDITION
NFPA 72	NAT. FIRE ALARM CODE (CALIF. AMENDED) 2013 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

APPLICABLE CODES

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
    (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
    (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
    (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
    (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
    (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2007 ASME A17.1 (w/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

BUILDING DATA

NUMBER OF STORIES:	1 - STORY
OCCUPANCY:	E: VARIOUS SIZES
TYPE OF CONSTRUCTION:	VB
FLOOR LIVE LOAD:	100 PSF @ RESTROOMS
	125 PSF @ CONCESSION STANDS
ROOF LIVE LOAD:	20 PSF
FLOOR DEAD LOAD:	CONC FLOOR - 33 PSF
ROOF DEAD LOAD:	17 PSF (INCLUDING SPRINKLER LOAD)
RAMP LIVE LOAD:	100 PSF
BUILDING AREA: **ALLOWABLE AREA: 9000SF**	12'x40' BLDG - 480 SF **(WITHOUT OVERHANGS)** 12'x60' BLDG - 720 SF **(WITH OVERHANGS)**
FOUNDATION:	CONCRETE
CEC CLIMATE ZONES:	1- 16

WIND DESIGN DATA (HIGH SEISMIC)

1. ULTIMATE WIND SPEED, 3 SEC GUST (MPH) :			110 / Kzt = 1.0
2. NOT USED			
3. WIND EXPOSURE :			"C"
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT :			± 0.18
5. COMPONENTS AND CLADDING :			
ZONE 1 =	26.4	ZONE 4 =	26.2
ZONE 2 =	44.3	ZONE 5 =	32.2
ZONE 3 =	66.7		

EARTHQUAKE DESIGN DATA SECTION 1603.A.1.5

1. SEISMIC IMPORTANCE FACTOR :	1
2. MAPPED SPECTRAL RESPONSE :	
DESIGN S_S = 1.898 (FOR BASE SHEAR)	S_1 = 0.823
3. SITE CLASS	D
4. SPECTRAL RESPONSE COEFFICIENTS :	
S_{DS} = 1.226	S_{D1} = 0.820
5. SEISMIC DESIGN CATEGORY :	E
6. BASIC SEISMIC-FORCE-RESISTING-SYSTEM :	OMF / SHEARWALL FOR 40' & 60' RESTROOMS. OMF ONLY FOR 60' CONCESSION/STORAGE BLDGS.
7. DESIGN BASE SHEAR (kips) :	

	TRANSVERSE (END WALL)	LONGITUDINAL (SIDE WALL)
40ft RESTROOM	12.40K	23.04K
60ft RESTROOM	17.43K	32.37K
60ft CONCESSIONS	40.50K	40.50K

8. SEISMIC RESPONSE COEFFICIENT, Cs : (OMF)	0.362
8a. SEISMIC RESPONSE COEFFICIENT, Cs : (SW)	0.195
9. RESPONSE MODIFICATION FACTOR, R : (OMF)	3.5
9a. RESPONSE MODIFICATION FACTOR, R : (SW)	6.5
10. ANALYSIS PROCEDURE USED :	EQUIVALENT LATERAL FORCE

12x40 BUILDINGS:
SHEAR WALL ALONG THE END (TRANSVERSE) WALLS
MOMENT FRAMES ALONG THE SIDE (LONGITUDINAL) WALL
LOAD SCENARIO 1

12x60 BUILDING CONCESSION BUILDINGS:
LS3 -- OMF IN EACH DIRECTION

12x60 RESTROOM BUILDINGS:
LS2 -- OMF IN LONGITUDINAL (SIDEWALL) DIRECTION, SW IN TRANSVERSE (ENDWALL) DIRECTION

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A-5.51-M1	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
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SILVER CREEK INDUSTRIES, INC.

SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

COVER SHEET

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

A-0-M1

REFLECTED CEILING NOTES

METAL SUSPENSION FOR LAY-IN PANEL CEILING:

A. 12GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO THE INCLUDING 4'-0" X 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.

B. PROVIDE 12GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN & CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.

C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT THE CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYS. RUNNERS, THE MAIN AND CROSS RUNNERS SHOULD BE FREE & A MIN. OF 3/4" CLEAR OF WALL.

E. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQ'D.

F. PROVIDE BRACING ASSEMBLY CONSISTING OF A COMPRESSION STRUT (COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB) AND (4) 12GA. SPLAYED WIRES ORIENTED 90° FROM EA. OTHER AT THE FOLLOWING SPACING.
(A). PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 8'-0" X 8"-0" ON CENTER.
(B). PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EA. PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.

G. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3". HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN SPLAY WIRES WITH 4 TIGHT TURNS IN 1 1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

H. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. SEE FIGURE 3A, DETAIL F OF DSA IR 25-2.13. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.

I. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
ATTACH ALL LIGHT FIXTURES CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580 SECTION 5.3.1.
RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

J. ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING GREATER THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
ALL 4 ft. x 4 ft. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 ft. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER FIGURE 1, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E. AIRCRAFT CABLES TO WALLS, THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. SEE IR 16-9 FOR ADDITIONAL REQUIREMENT FOR PENDENT MOUNTED FIXTURES.
ALL LIGHT-WEIGHT MISCELLANEOUS DEVISES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.2.1, 7.2.2 & 7.2.3 OF DSA IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHTING MORE THEN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.4.1 OF DSA IR 25-2.13.
PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580 SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER.

K. CLASSIFICATION OF CEILING GRID:
CLASSIFICATION OF CEILING GRID SHALL BE "HEAVY DUTY"
MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328
2" WALL ANGLE: 7810
ARMSTRONG PER ASTM C635, C636 AND ICC-ES ESR-1308.
PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

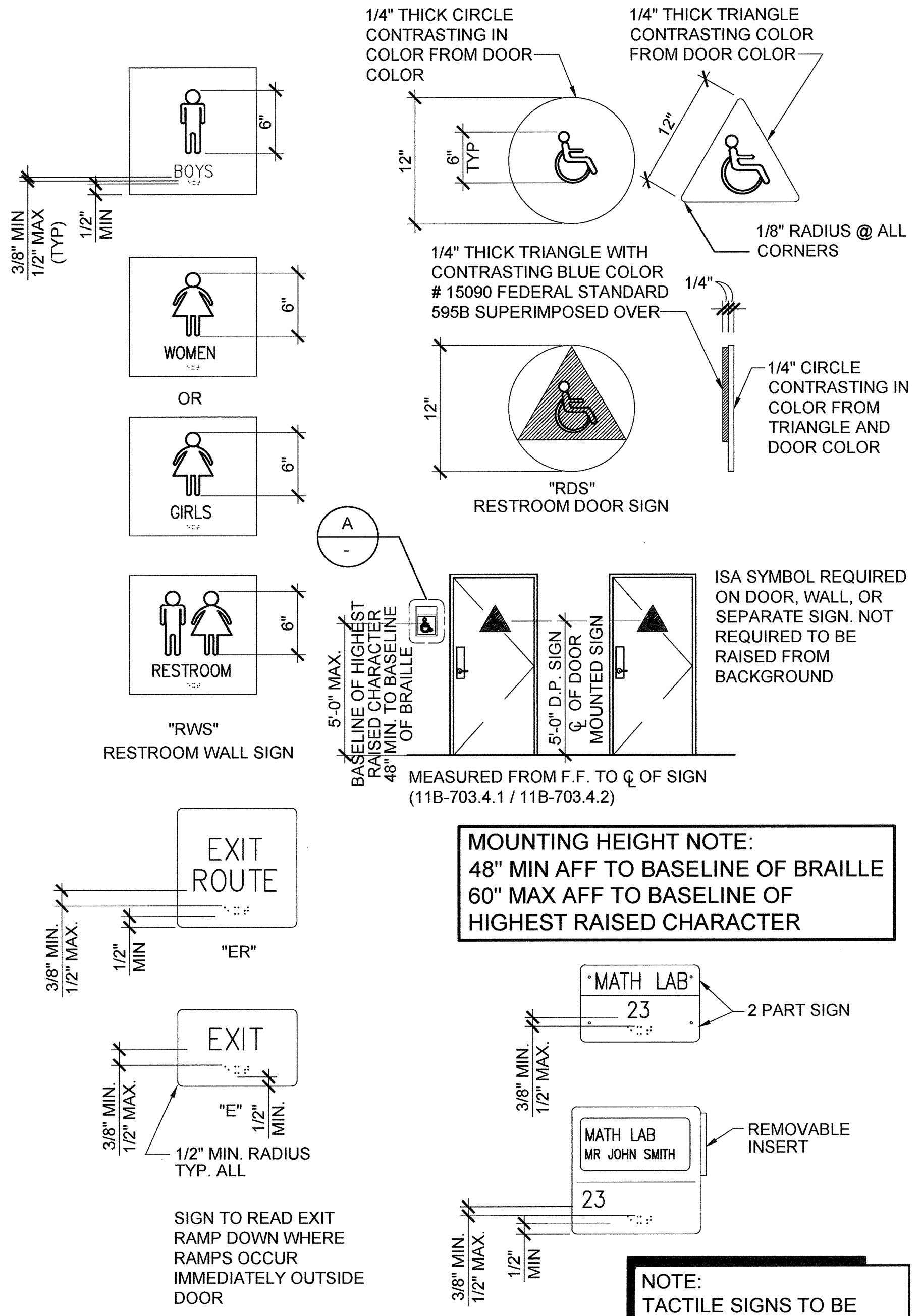
L. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH DSA IR 25-2.13 SECTION 4, FIGURE 7, DETAIL A TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, COMPLY WITH ASTM E580-08 SECTION 5.2.9. - SEE 20/A-2.20

2. NOTE FOR FIRE BLK CONSTRUCTION: SECTION 718.2

PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

3. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES

4. HANGER WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES


1/4" THICK CIRCLE CONTRASTING IN COLOR FROM DOOR COLOR
1/4" THICK TRIANGLE CONTRASTING COLOR FROM DOOR COLOR
BOYS
6"
3/8" MIN 1/2" MAX (TYP)
1/2" MIN
12"
6" TYP
12"
1/8" RADIUS @ ALL CORNERS
1/4" THICK TRIANGLE WITH CONTRASTING BLUE COLOR # 15090 FEDERAL STANDARD 595B SUPERIMPOSED OVER
1/4"
1/4" CIRCLE CONTRASTING IN COLOR FROM TRIANGLE AND DOOR COLOR
WOMEN
OR
GIRLS
12"
"RDS" RESTROOM DOOR SIGN
A
RESTROOM
"RWS" RESTROOM WALL SIGN
5'-0" MAX. BASELINE OF HIGHEST RAISED CHARACTER
48" MIN. TO BASELINE OF BRAILLE
5'-0" D.P. SIGN ℄ OF DOOR MOUNTED SIGN
ISA SYMBOL REQUIRED ON DOOR, WALL, OR SEPARATE SIGN. NOT REQUIRED TO BE RAISED FROM BACKGROUND
MEASURED FROM F.F. TO ℄ OF SIGN (11B-703.4.1 / 11B-703.4.2)
EXIT ROUTE
"ER"
3/8" MIN. 1/2" MAX.
1/2" MIN
MATH LAB
23
2 PART SIGN
EXIT
"E"
1/2" MIN. RADIUS TYP. ALL
MATH LAB
MR JOHN SMITH
23
REMOVABLE INSERT
SIGN TO READ EXIT RAMP DOWN WHERE RAMPS OCCUR IMMEDIATELY OUTSIDE DOOR

MOUNTING HEIGHT NOTE:
48" MIN AFF TO BASELINE OF BRAILLE
60" MAX AFF TO BASELINE OF HIGHEST RAISED CHARACTER

NOTE:
TACTILE SIGNS TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT SCI. AND SHALL COMPLY W/ CBC 1011.4

SIGNAGE TEMPLATES

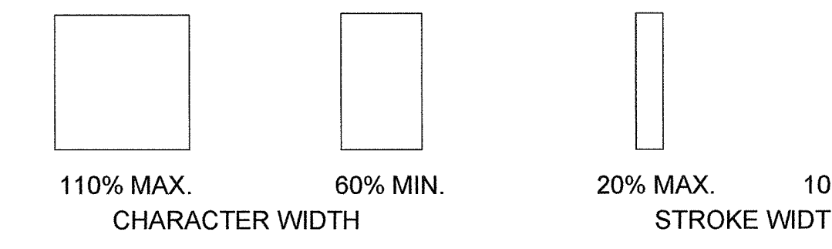
COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

TACTILE EXIT SIGNS

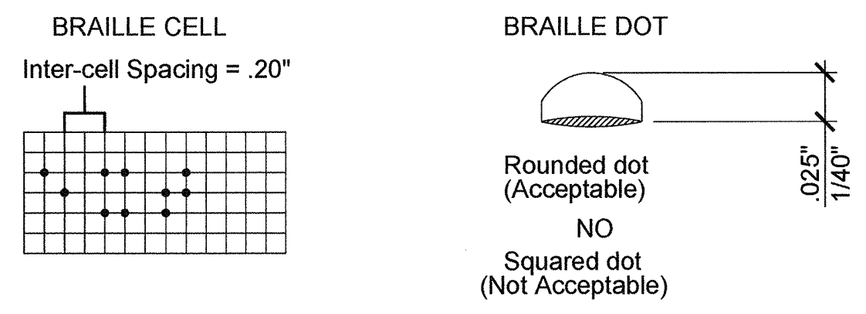
1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE (SEE NOTE 5 BELOW).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HEIGHT BASED ON THE HEIGHT OF THE UPPERCASE "I".
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1 / 11B-703.6.2 / 11B-703.7.1
4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO HEIGHT RATIO OF BETWEEN 60% MIN. AND 110% MAX. AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 10% MIN. AND 20% MAX. OF THE CHARACTER HEIGHT. 11B-703.2.4, 11B-703.2.6, 11B-703.5.7.

   ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE STYLE TO TEST, BEGIN BY PRINTING THE LETTERS "O", AND "I" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 110% SQUARE OVER "O",IF THE CHARACTER IS NOT WIDER THAN 110% SQUARE, NOR NARROWER THAN THE 60% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 20% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF ITS IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPE STYLE IS COMPLIANT WITH PROPORTION CODE.

   TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

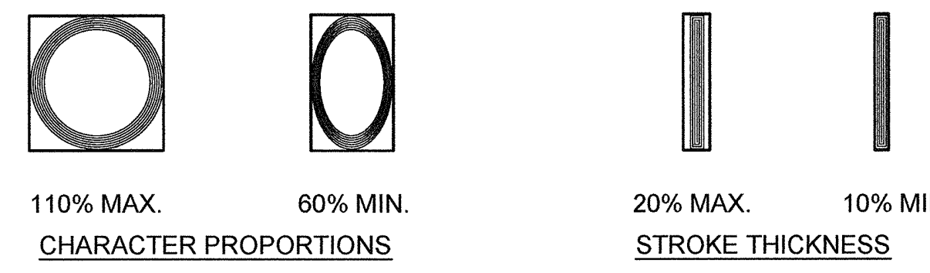


5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. 11B-703.3 / 11B-703.3.1.

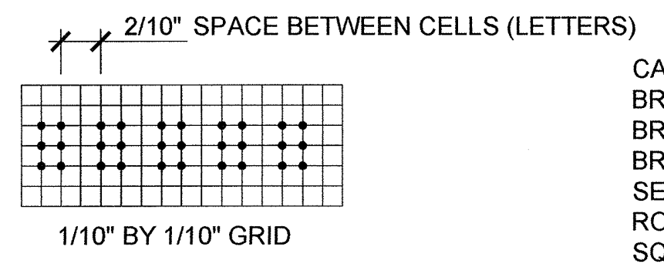


REQUIRED ROUNDED OR DOMED CALIFORNIA BRAILLED DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

EXAMPLE OF HOW TO DEMONSTRATE FONT TO BE USED

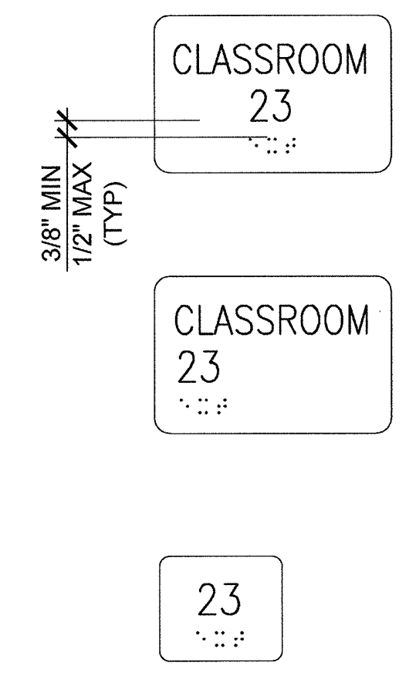


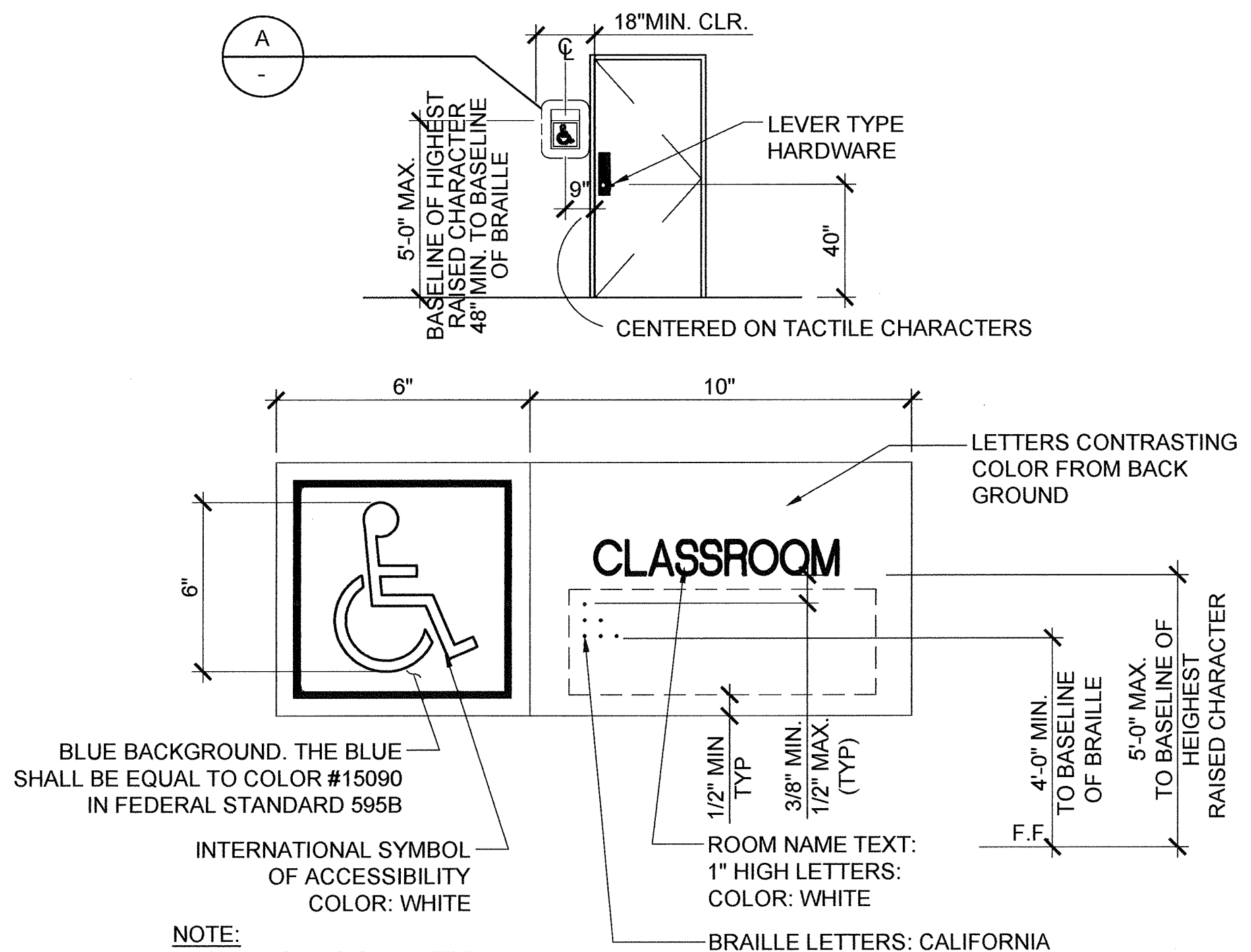
WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE



CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

BRAILLE SPACING TEMPLATE PER TITLE 24




A
18"MIN. CLR.
℄
LEVER TYPE HARDWARE
5'-0" MAX. BASELINE OF HIGHEST RAISED CHARACTER
48" MIN. TO BASELINE OF BRAILLE
9"
40"
CENTERED ON TACTILE CHARACTERS
6"
10"
LETTERS CONTRASTING COLOR FROM BACK GROUND
6"
CLASSROOM
BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR #15090 IN FEDERAL STANDARD 595B
INTERNATIONAL SYMBOL OF ACCESSIBILITY COLOR: WHITE
1/2" MIN TYP
3/8" MIN. 1/2" MAX. (TYP)
4'-0" MIN. TO BASELINE OF BRAILLE
5'-0" MAX. TO BASELINE OF HEIGHEST RAISED CHARACTER
F.F.
ROOM NAME TEXT: 1" HIGH LETTERS: COLOR: WHITE
BRAILLE LETTERS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE DOTS SPACING 1/10" O.C. WITHIN CELL 2/10" BETWEEN CELLS 1/40" MIN. RAISED DOTS

NOTE:
PROVIDE ONE SIGN WHERE INDICATED ON PLANS. LOCATE SIGN MAX. 12" AWAY FROM THE DOOR STRIKE SIDE.

NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC, W/ 1.32" RAISED BORDER, GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703.

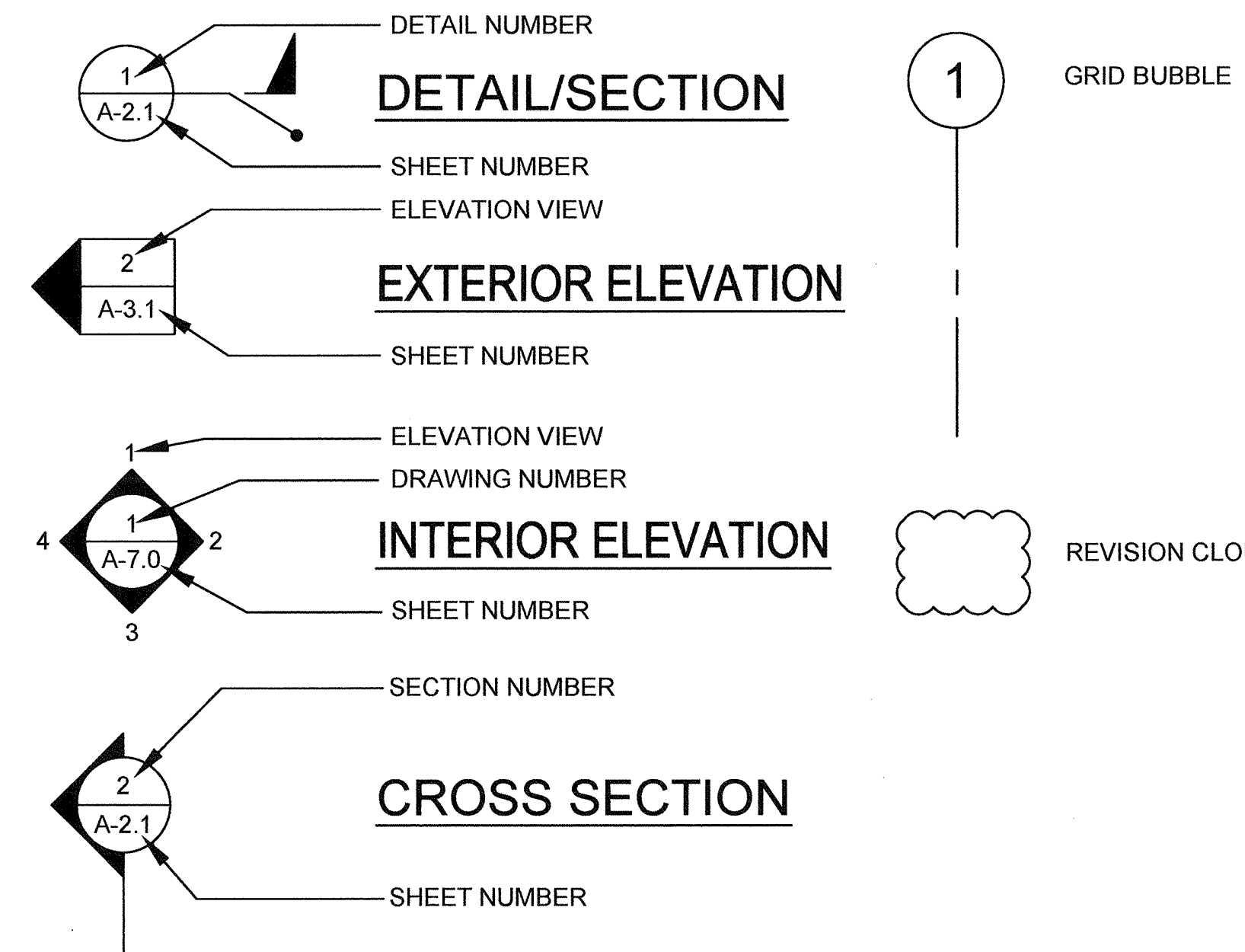
A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

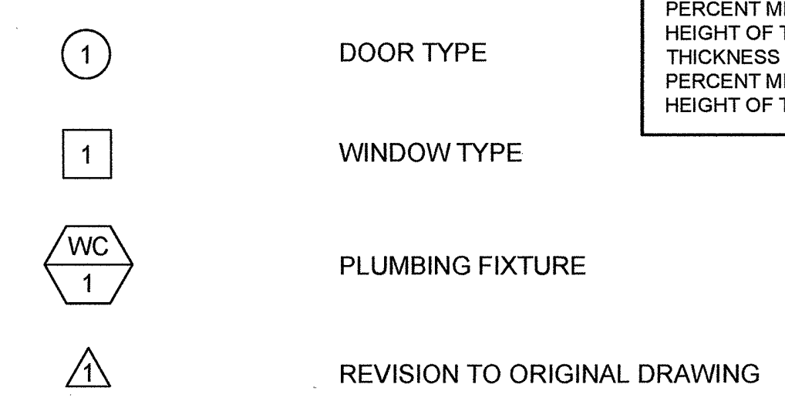
COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



NOTE:
11B-703.2.4 / 11B-703.2.6 PROPORTIONS. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER



ABBREVIATIONS

AB	ANCHOR BOLT
ABS	ABSOLUTE
ABV	ABOVE
ACC	ACCESS
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGC	ABOVE GRADE CONCRETE
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL / ARCHITECT
BD	BOARD
BGC	BELOW GRADE CONCRETE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BTWN	BETWEEN
BU	BUILT UP
CAB	CABINET
CBC	CALIFORNIA BUILDING CODE
CI	CAST IRON
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSK	COUNTERSINK
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	END NAIL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXT	EXTERIOR
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FTG	FOOTING
FOF	FACE OF FINISH
GA	GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GR	GRADE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HF	HEM FIR
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
INCL	INCLUDED
INFO	INFORMATION
INT	INTERIOR
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
KO	KNOCK OUT
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUNDS
LT	LIGHT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MAX	MAXIMUM
MB	MACHINE BOLT
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULE
MTL	METAL
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK
NL	NAIL
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P̸L OR PL	PLATE
PC	PRE-CHECKED
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POC	POINT OF CONNECTION
POT	PATH OF TRAVEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAG	RETURN AIR GRILLE
RD	ROOF DRAIN
REF	REFERENCE
REG	REGISTER
REINF	REINFORCE
REQ'D	REQUIRED
REV	REVISION
RF	ROOF
RM	ROOM
RO	ROUGH OPENING
ROH	ROOF OVERHANG
SCHED	SCHEDULE
SEC	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STS	SELF-TAPPING SCREW
STSMS	SELF-TAPPING SHEET METAL SCREW
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
THK	THICK
TOC	TOP OF COLUMN
TOS	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WH	WATER HEATER
WIC	WOODWORK INSTITUTE OF CALIFORNIA
WND	WINDOW
W/O	WITHOUT
WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS

05720 RAILINGS AND HANDRAILS:
ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH, NO SHARP OR ABRASIVE CORNERS EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH.

DIVISION 8 - DOORS

08710 DOOR HARDWARE:
- IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. 11B-404.2.7 / 11B-309.4. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS CHAPTER 10, SECTION 1008.1.9 / 11B-404.2.7 AND 11B-309.4
- THRESHOLDS SHALL COMPLY WITH CBC SECTIONS 1008.1.7 AND 11B-404.2.5.
- FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS POLICY 99-08

08712 EXIT DEVICES: (WHERE APPLICABLE)
MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LB (22.2 N) FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, 5LBS MAX OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBF (66.72 N) PER CBC SECTIONS 1008.1.3 AND 11B-404.2.9.
HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MIN AND 48 INCHES MAX ABOVE THE FLOOR PER CBC SECTION 1008.1.9.2. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOOR SHALL OPERATE AS ABOVE IN EGRESS DIRECTION PER CBC SECTION 1008.1.2

PANIC HARDWARE SHALL NOT BE PROVIDED WITH "NIGHT LATCH" FUNCTION FOR ANY ACCESSIBLE DOORS OR GATES UNLESS THE FOLLOWING CONDITIONS ARE MET PER DSA INTERPRETATION 10-08 DSA/AC. SUCH CONDITIONS MUST BE CLEARLYDEMONSTRATED AND INDICATED IN THE SPECIFICATIONS:
- SUCH HARDWARE HAS A 'DOGGING' FEATURE.
- IT IS DOGGED DURING THE TIME THE FACILITY IS OPEN.
- SUCH 'DOGGING' OPERATION IS PERFORMED ONLY BY EMPLOYEES AS THEIR JOB FUNCTION (NON-PUBLIC USE).

DIVISION 9 - FINISHES

09650 RESILIENT FLOORING:
RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.

09680 CARPETING:
CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT, OR LEVEL-CUT/UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER CBC SECTION 11B-302.2.
CARPET EDGES SHALL COMPLY WITH CBC 11B-303.

DIVISION 10 - SPECIALTIES

10155 TOILET COMPARTMENTS: CBC SECTION 11B-604.8.1.2
TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLT DOOR LATCH, U-SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR AND SELF-CLOSING HINGES. DOORS HARDWARE SHALL BE MOUNTED AT 34" MIN TO 44" MAX ABOVE FINISHED FLOOR. DOORS AT FRONT ENTRY STALLS SHALL HAVE 32" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°. DOORS AT SIDE ENTRY STALLS SHALL HAVE 34" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°.

10800 TOILET ACCESSORIES:
TOILET ACCESSORIES REQUIRED TO BE ACCESSIBLE SHALL BE MOUNTED AT HEIGHTS ACCORDING TO CBC SECTION 11B-213.3. THE GRAB BAR CAN NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET 11B-604.5 / 11B-604.8.1.5 / 11B-604.8.2.3. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL PROJECT MORE THAN THE GRAB BAR. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1 1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR. ACCESSORIES SURFACE MOUNTED ABOVE GRAB BAR WILL RESTRICT USABILITY.

DIVISION 15 - MECHANICAL

15400 PLUMBING FIXTURES:
ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 11B-213.2 / 11B-603.2. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 11B-604.9. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-213.2 / 11B-603.2.

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

JACK F. SHIVELY
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS EB SS
Date FEB 0 3 2017

REVISIONS
1
2
3
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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
A-0.1-M1

TOILET ACCESSORIES

T1	PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION
T2	ELECTRIC HAND DRYER WITH 4" MAXIMUM PROJECTION (ACCESSIBLE COMPLIANT)
T3	SANITARY NAPKIN DISPENSER - 3" MAX. PROJECTION
T4	SEMI-RECESSED WASTE RECEPTACLE WITH 4" MAXIMUM PROJECTION
T5	SOAP DISPENSER - 4" MAXIMUM PROJECTION
T6	MIRROR, STAINLESS STEEL
T7	MIRROR, GLASS
T8	TOILET PARTITION
T9	36" LONG GRAB BAR
T10	42" LONG GRAB BAR
T11	STANDARD TOILET PAPER DISPENSER
T12	ACCESSIBLE TOILET PAPER DISPENSER- 3" MAXIMUM PROJECTION
T13	SANITARY NAPKIN DISPOSAL, SINGLE COMPARTMENT- 3" MAXIMUM PROJECTION
T14	SANITARY NAPKIN DISPOSAL, DUAL COMPARTMENT
T15	PIPE INSULATION WRAP
T16	MOP STRIP
T17	NOT USED
T18	URINAL PARTITION
T19	TOILET PAPER DISPENSER, NON-ACCESS FACULTY TOILETS
T20	TOILET PAPER DISPENSER, DOUBLE ROLL, ACCESSIBLE TOILETS
T21	COUNTER MOUNTED SOAP DISPENSER

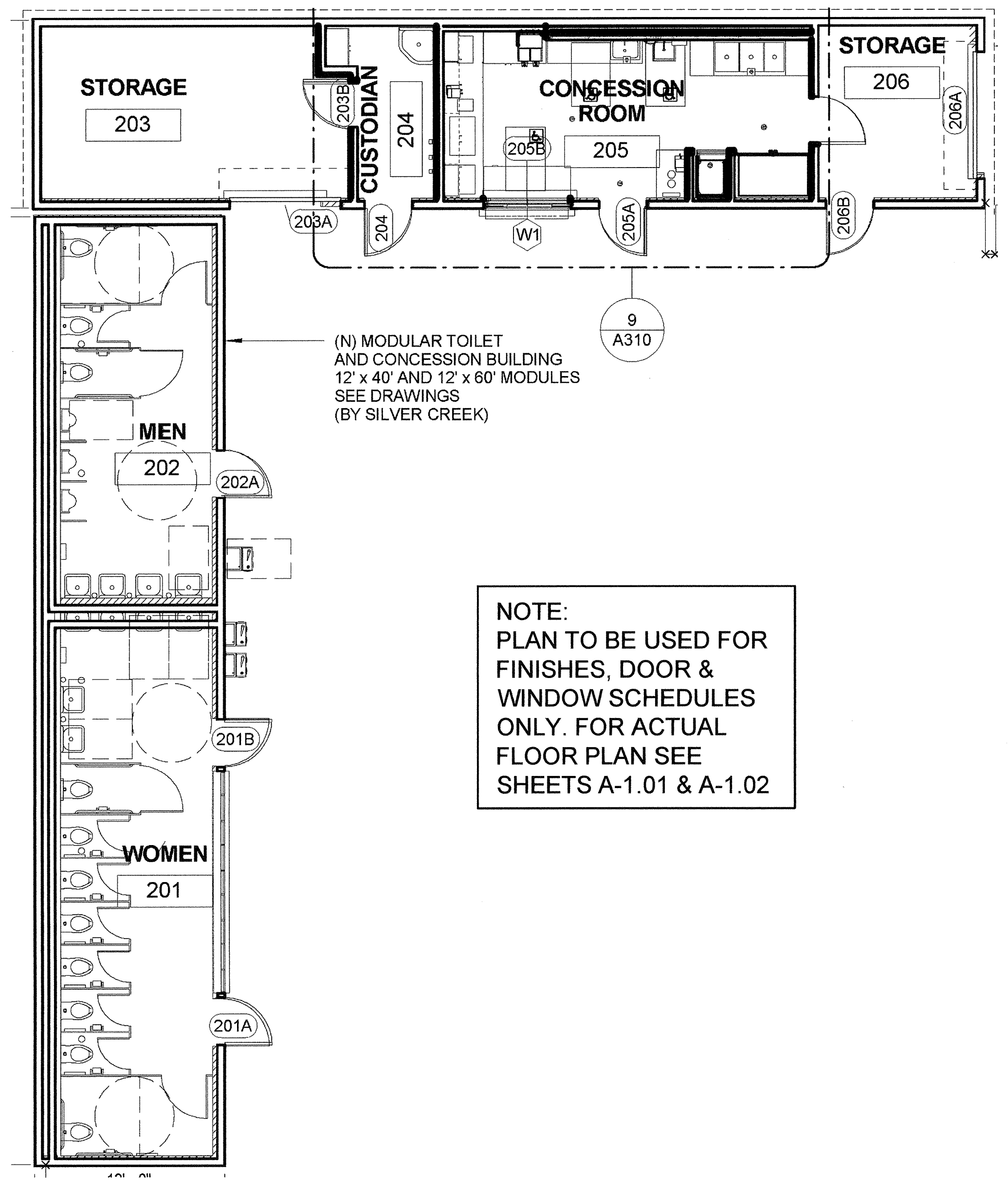
TOILET KEY NOTES

①	WOOD TRIM 1X4 (S4S) PAINT TO MATCH DOOR AND WINDOWS FRAMES
②	EPOXY PAINT
③	EPOXY FLOORING (TNEMEC)
④	FRP WALLS
⑤	CONCRETE
⑥	5/8" PLYWOOD, PAINTED
⑦	SEALED CONCRETE
⑧	ROLL UP DOOR
⑨	DOOR AND HOLLOW METAL FRAME
⑩	1 HOUR RATED WALL PER DETAIL

FINISH SCHEDULE

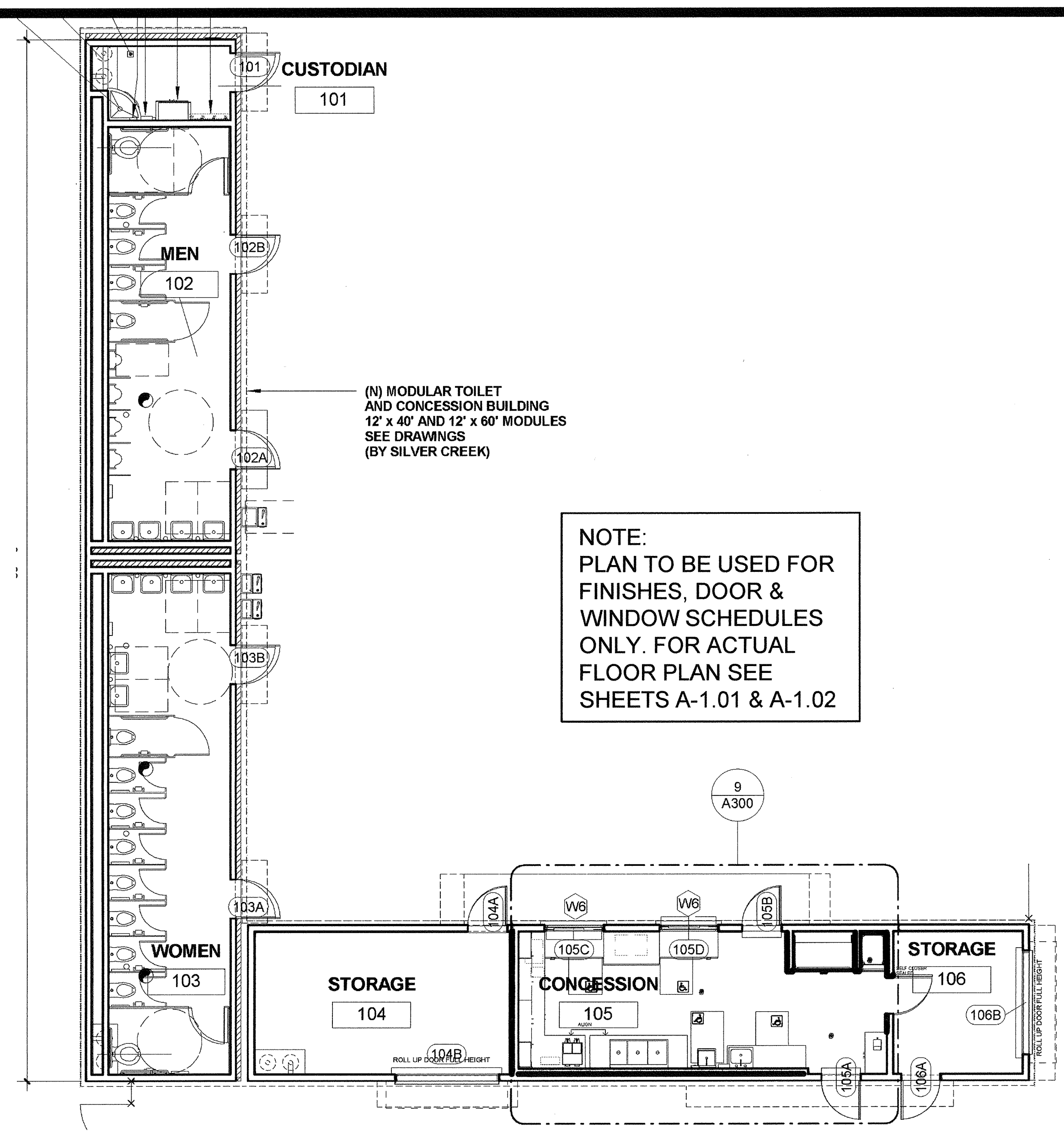
ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CUSTODIAN 101	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 102	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 103	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 104	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 105	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 106	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
WOMEN'S 201	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
MEN'S 202	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
STORAGE 203	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CUSTODIAN 204	EPOXY	SC	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING
CONCESSION 205	EPOXY	SC	FRP	FRP	FRP	FRP	CP	9'-0"	ANTI-BACTERIAL ACOUSTICAL CEILING TILES
STORAGE 206	CONC	4" TS	FRP	FRP	FRP	FRP	HC	9'-0"	WASHABLE PAINT @ CEILING

FLOORING
EPOXY: EPOXY RESIN FLOOR w/ TENEMIC
BASE
4" TS: 4" TOP SET BASE
SC: 6" SELF-COVE BASE
WALLS
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)



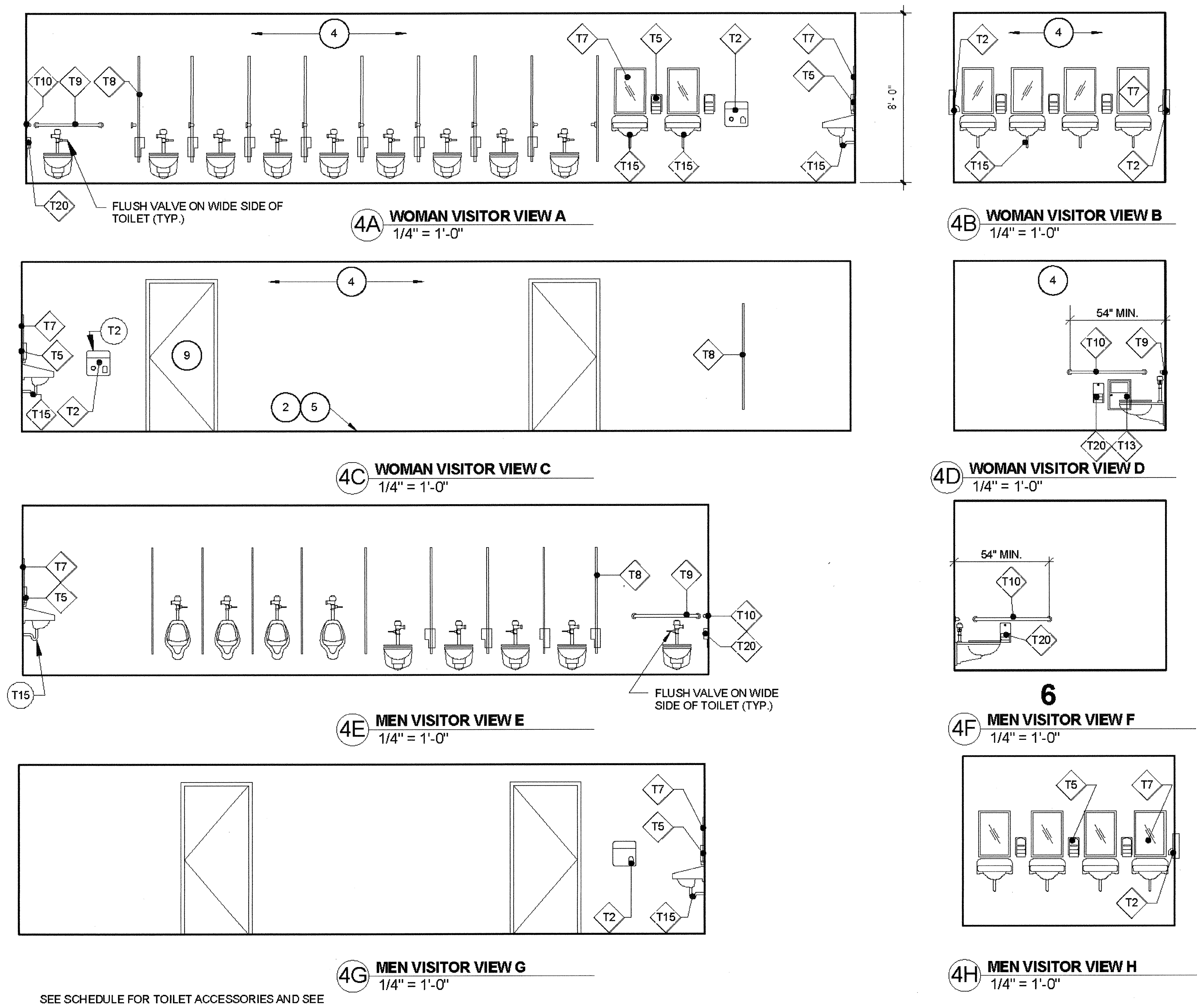
NOTE:
PLAN TO BE USED FOR FINISHES, DOOR & WINDOW SCHEDULES ONLY. FOR ACTUAL FLOOR PLAN SEE SHEETS A-1.01 & A-1.02

FLOOR PLAN AT VISITOR MODULAR TOILET (BY SILVER CREEK) 1/8" = 1'-0" 2



NOTE:
PLAN TO BE USED FOR FINISHES, DOOR & WINDOW SCHEDULES ONLY. FOR ACTUAL FLOOR PLAN SEE SHEETS A-1.01 & A-1.02

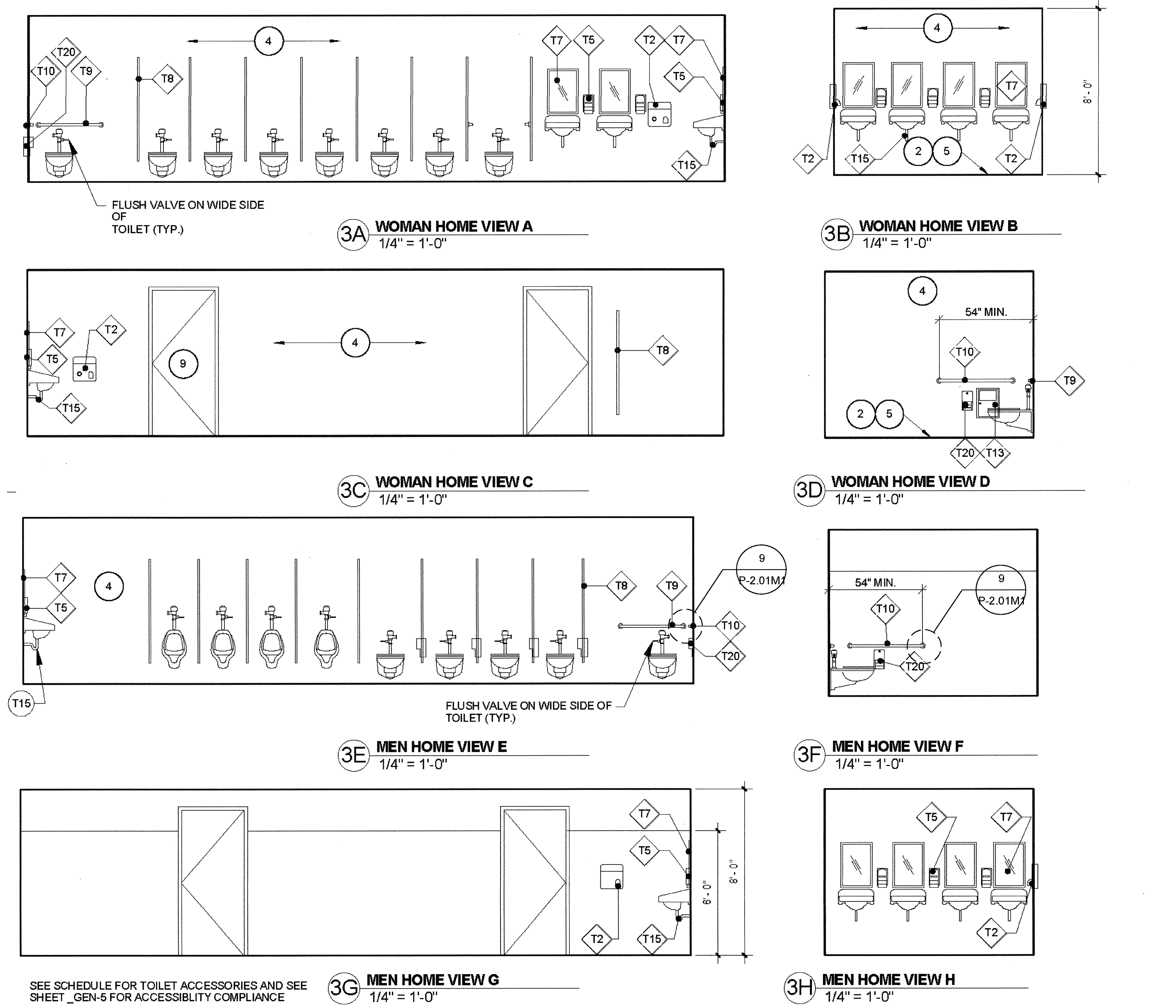
FLOOR PLAN AT HOME MODULAR TOILET (BY SILVER CREEK) 1/8" = 1'-0" 1


T1
T2
T5
T7
T8
T9
T10
T13
T15
T20
4
2
5
9
8'-0"
54" MIN.
FLUSH VALVE ON WIDE SIDE OF TOILET (TYP.)
FLUSH VALVE ON WIDE SIDE OF TOILET (TYP.)
6

4A WOMAN VISITOR VIEW A 1/4" = 1'-0"
4B WOMAN VISITOR VIEW B 1/4" = 1'-0"
4C WOMAN VISITOR VIEW C 1/4" = 1'-0"
4D WOMAN VISITOR VIEW D 1/4" = 1'-0"
4E MEN VISITOR VIEW E 1/4" = 1'-0"
4F MEN VISITOR VIEW F 1/4" = 1'-0"
4G MEN VISITOR VIEW G 1/4" = 1'-0"
4H MEN VISITOR VIEW H 1/4" = 1'-0"

SEE SCHEDULE FOR TOILET ACCESSORIES AND SEE SHEET _GEN-5 FOR ACCESSIBLITY COMPLIANCE

ELEVATIONS AT VISITOR MODULAR TOILET 1/4" = 1'-0" 4


T2
T5
T7
T8
T9
T10
T13
T15
T20
4
2
5
9
9
P-2.01M1
8'-0"
54" MIN.
FLUSH VALVE ON WIDE SIDE OF TOILET (TYP.)
FLUSH VALVE ON WIDE SIDE OF TOILET (TYP.)

3A WOMAN HOME VIEW A 1/4" = 1'-0"
3B WOMAN HOME VIEW B 1/4" = 1'-0"
3C WOMAN HOME VIEW C 1/4" = 1'-0"
3D WOMAN HOME VIEW D 1/4" = 1'-0"
3E MEN HOME VIEW E 1/4" = 1'-0"
3F MEN HOME VIEW F 1/4" = 1'-0"
3G MEN HOME VIEW G 1/4" = 1'-0"
3H MEN HOME VIEW H 1/4" = 1'-0"

SEE SCHEDULE FOR TOILET ACCESSORIES AND SEE SHEET _GEN-5 FOR ACCESSIBLITY COMPLIANCE

ELEVATIONS AT HOME MODULAR TOILET 1/4" = 1'-0" 3

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
SCHEDULES PLANS & ELEVATIONS

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS
1
2
3
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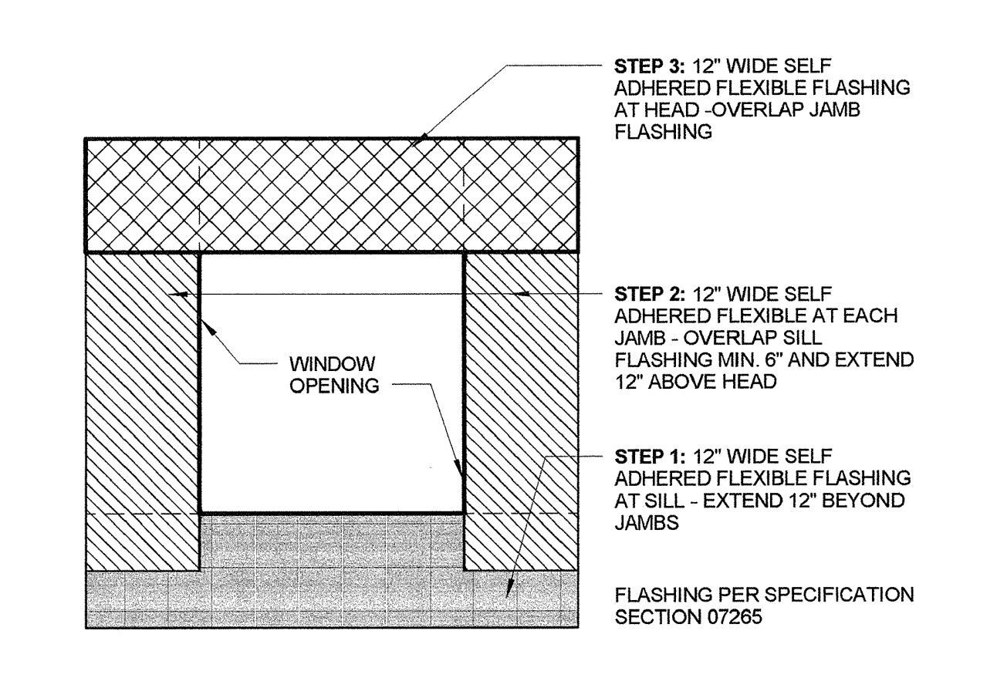
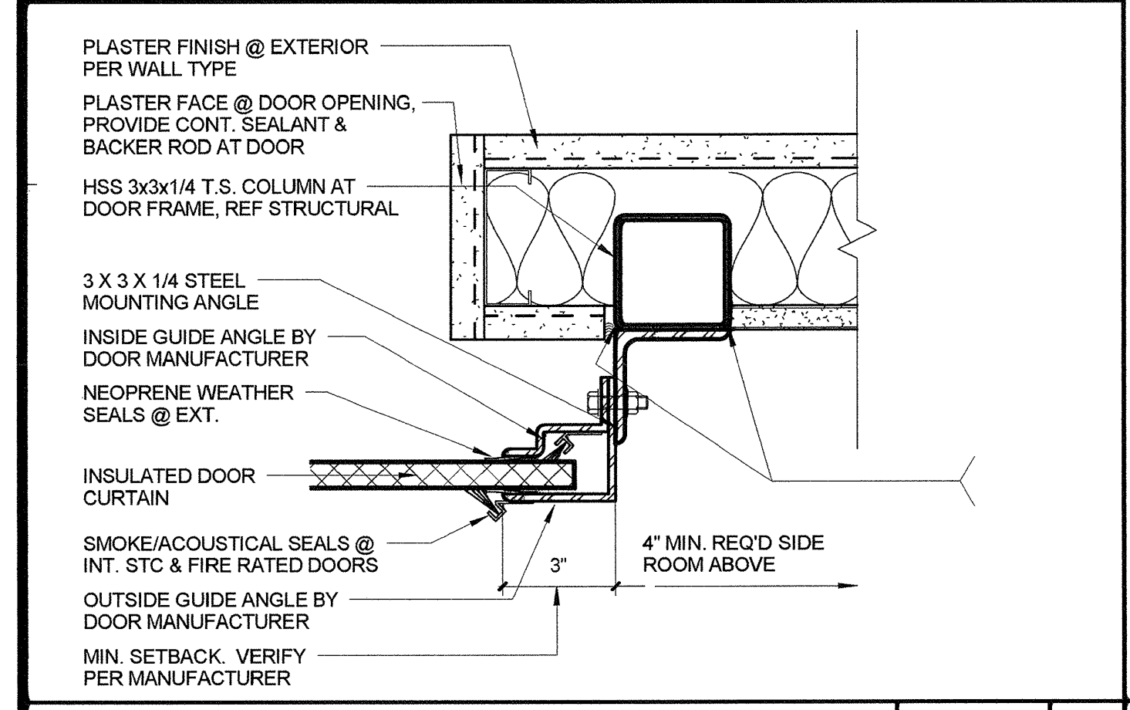
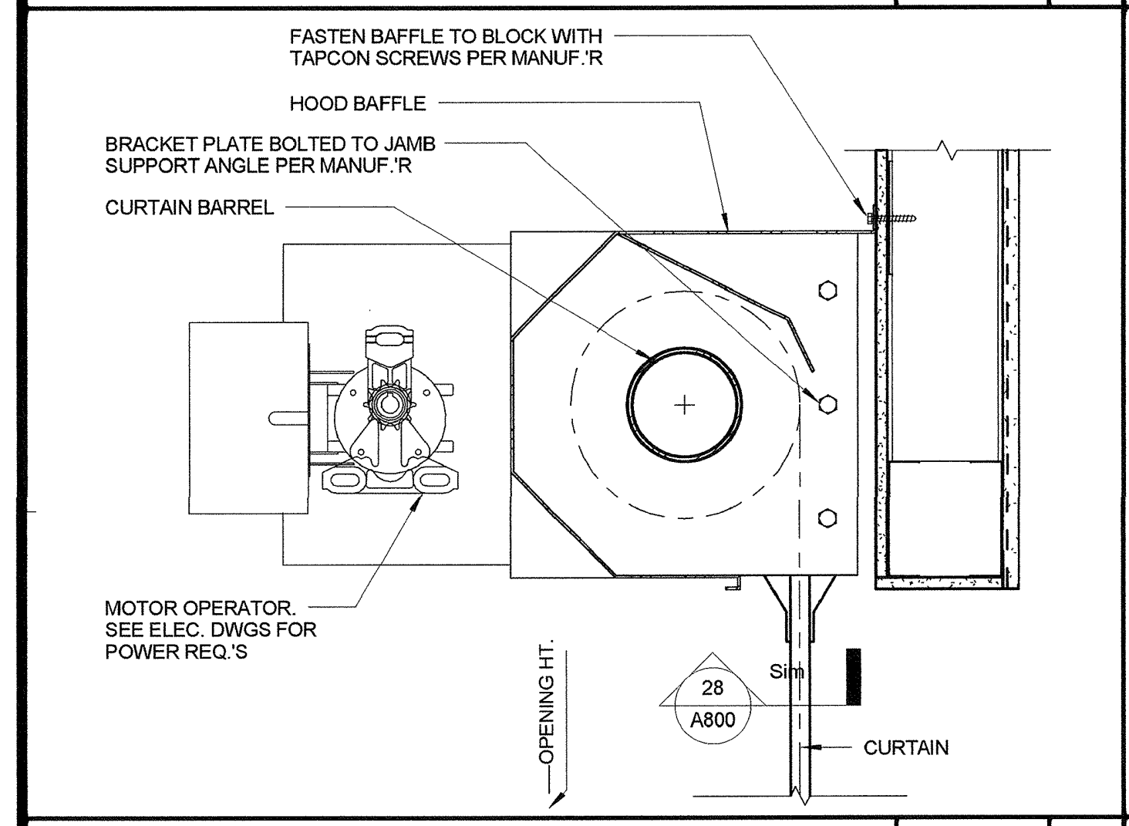
SILVER CREEK INDUSTRIES
PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016
SHEET NUMBER
A-0.2-M1


STEP 3: 12" WIDE SELF ADHERED FLEXIBLE FLASHING AT HEAD -OVERLAP JAMB FLASHING
STEP 2: 12" WIDE SELF ADHERED FLEXIBLE AT EACH JAMB - OVERLAP SILL FLASHING MIN. 6" AND EXTEND 12" ABOVE HEAD
WINDOW OPENING
STEP 1: 12" WIDE SELF ADHERED FLEXIBLE FLASHING AT SILL - EXTEND 12" BEYOND JAMBS
FLASHING PER SPECIFICATION SECTION 07265

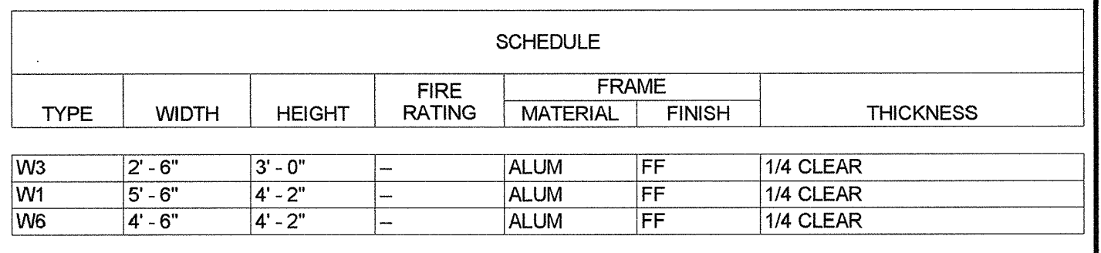
WINDOW FLASHING 1 1/2" = 1'-0" 30


PLASTER FINISH @ EXTERIOR PER WALL TYPE
PLASTER FACE @ DOOR OPENING, PROVIDE CONT. SEALANT & BACKER ROD AT DOOR
HSS 3x3x1/4 T.S. COLUMN AT DOOR FRAME, REF STRUCTURAL
3 X 3 X 1/4 STEEL MOUNTING ANGLE
INSIDE GUIDE ANGLE BY DOOR MANUFACTURER
NEOPRENE WEATHER SEALS @ EXT.
INSULATED DOOR CURTAIN
SMOKE/ACOUSTICAL SEALS @ INT. STC & FIRE RATED DOORS
OUTSIDE GUIDE ANGLE BY DOOR MANUFACTURER
MIN. SETBACK, VERIFY PER MANUFACTURER
4" MIN. REQ'D SIDE ROOM ABOVE
3"

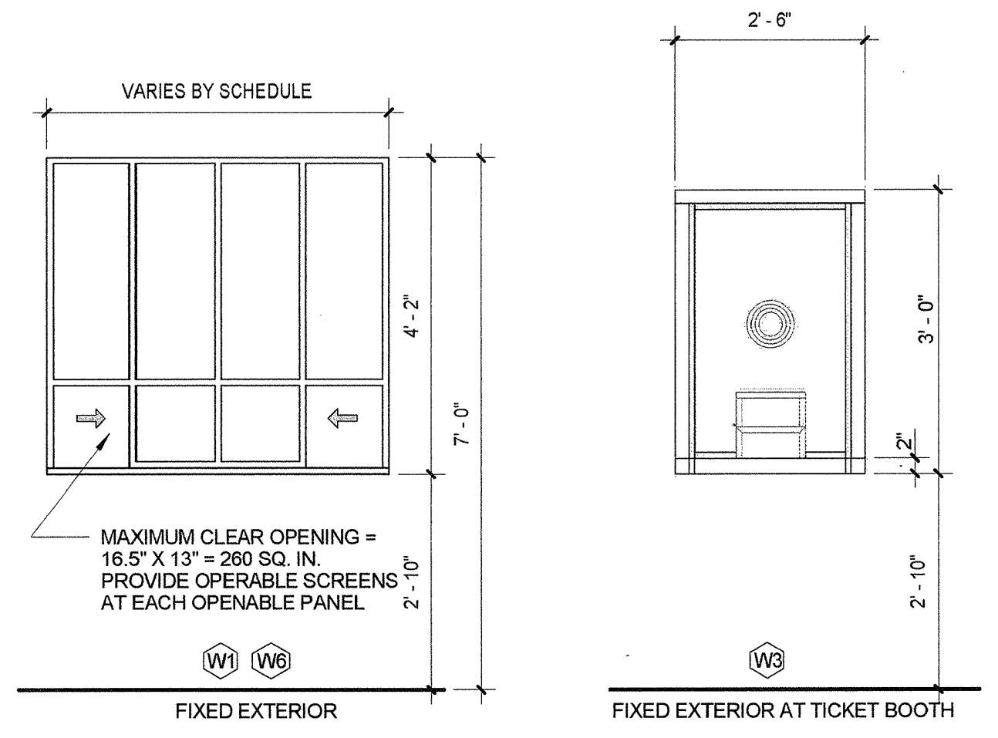
OVERHEAD COILING DOOR JAMB 3" = 1'-0" 28


FASTEN BAFFLE TO BLOCK WITH TAPCON SCREWS PER MANUF.'R
HOOD BAFFLE
BRACKET PLATE BOLTED TO JAMB SUPPORT ANGLE PER MANUF.'R
CURTAIN BARREL
MOTOR OPERATOR, SEE ELEC. DWGS FOR POWER REQ.'S
OPENING HT.
28
A800
CURTAIN

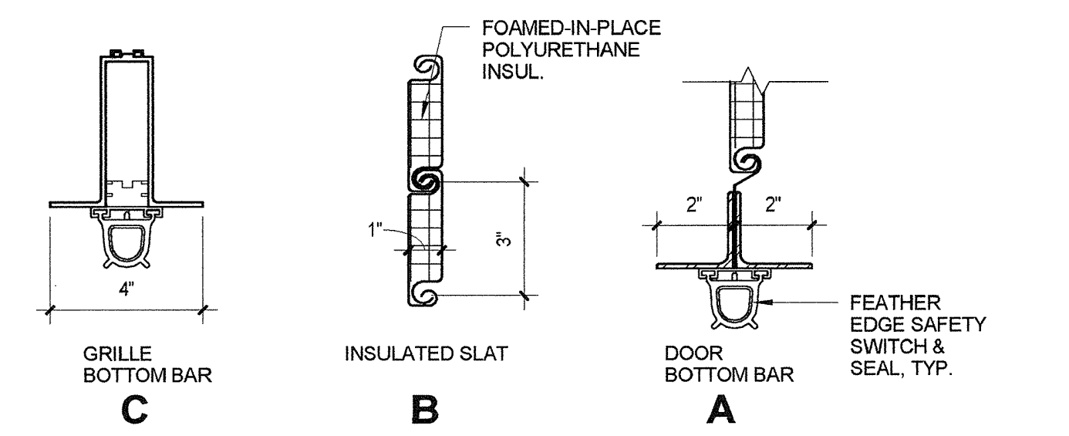
OVERHEAD COILING DOOR HEAD 1 1/2" = 1'-0" 27



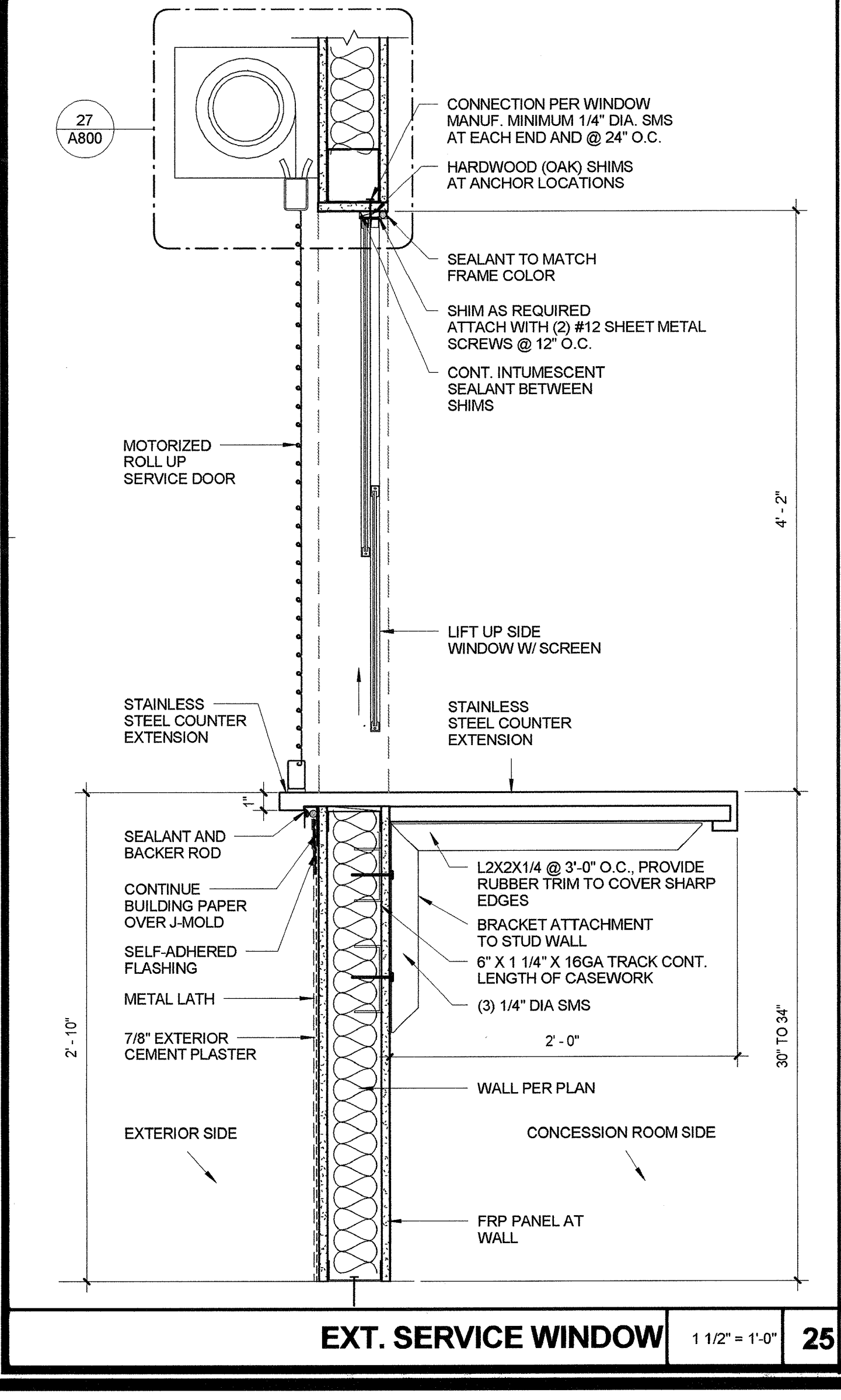
SCHEDULE						
TYPE	WIDTH	HEIGHT	FIRE RATING	FRAME MATERIAL	FRAME FINISH	THICKNESS
W3	2' - 6"	3' - 0"	–	ALUM	FF	1/4 CLEAR
W1	5' - 6"	4' - 2"	–	ALUM	FF	1/4 CLEAR
W6	4' - 6"	4' - 2"	–	ALUM	FF	1/4 CLEAR


VARIES BY SCHEDULE
4' - 2"
7' - 0"
MAXIMUM CLEAR OPENING = 16.5" X 13" = 260 SQ. IN. PROVIDE OPERABLE SCREENS AT EACH OPENABLE PANEL
W1 W6
2' - 10"
FIXED EXTERIOR
2' - 6"
3' - 0"
W3
FIXED EXTERIOR AT TICKET BOOTH

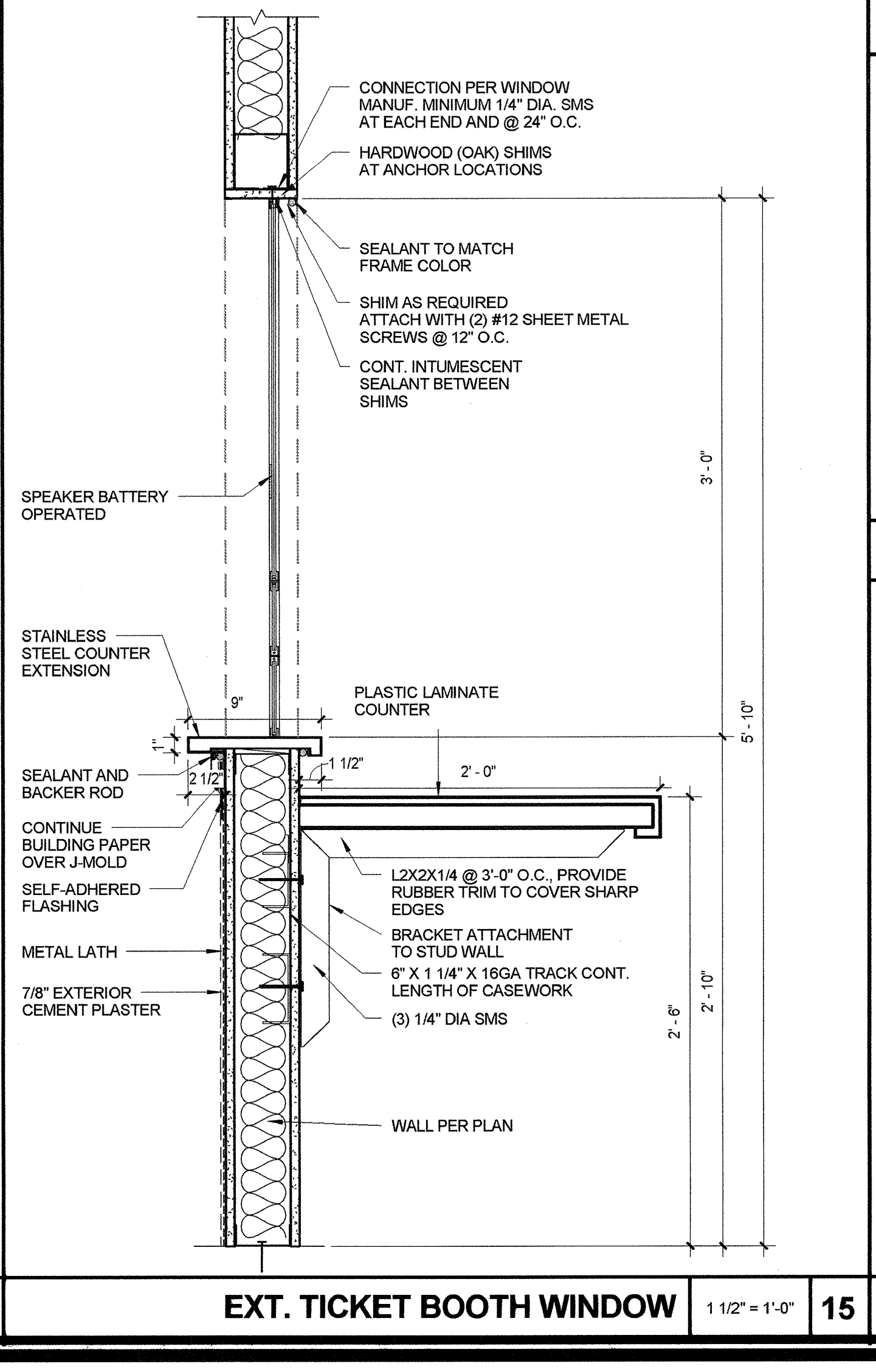
WINDOW SCHEDULE AND LEGEND


GRILLE BOTTOM BAR
C
FOAMED-IN-PLACE POLYURETHANE INSUL.
INSULATED SLAT
B
DOOR BOTTOM BAR
FEATHER EDGE SAFETY SWITCH & SEAL, TYP.
A

OVERHEAD COILING DOOR DETAILS 3" = 1'-0" 18


27
A800
CONNECTION PER WINDOW MANUF. MINIMUM 1/4" DIA. SMS AT EACH END AND @ 24" O.C.
HARDWOOD (OAK) SHIMS AT ANCHOR LOCATIONS
SEALANT TO MATCH FRAME COLOR
SHIM AS REQUIRED ATTACH WITH (2) #12 SHEET METAL SCREWS @ 12" O.C.
CONT. INTUMESCENT SEALANT BETWEEN SHIMS
MOTORIZED ROLL UP SERVICE DOOR
LIFT UP SIDE WINDOW W/ SCREEN
STAINLESS STEEL COUNTER EXTENSION
SEALANT AND BACKER ROD
CONTINUE BUILDING PAPER OVER J-MOLD
SELF-ADHERED FLASHING
METAL LATH
7/8" EXTERIOR CEMENT PLASTER
L2X2X1/4 @ 3'-0" O.C., PROVIDE RUBBER TRIM TO COVER SHARP EDGES
BRACKET ATTACHMENT TO STUD WALL
6" X 1 1/4" X 16GA TRACK CONT. LENGTH OF CASEWORK
(3) 1/4" DIA SMS
WALL PER PLAN
EXTERIOR SIDE
CONCESSION ROOM SIDE
FRP PANEL AT WALL
2' - 0"
30" TO 34"

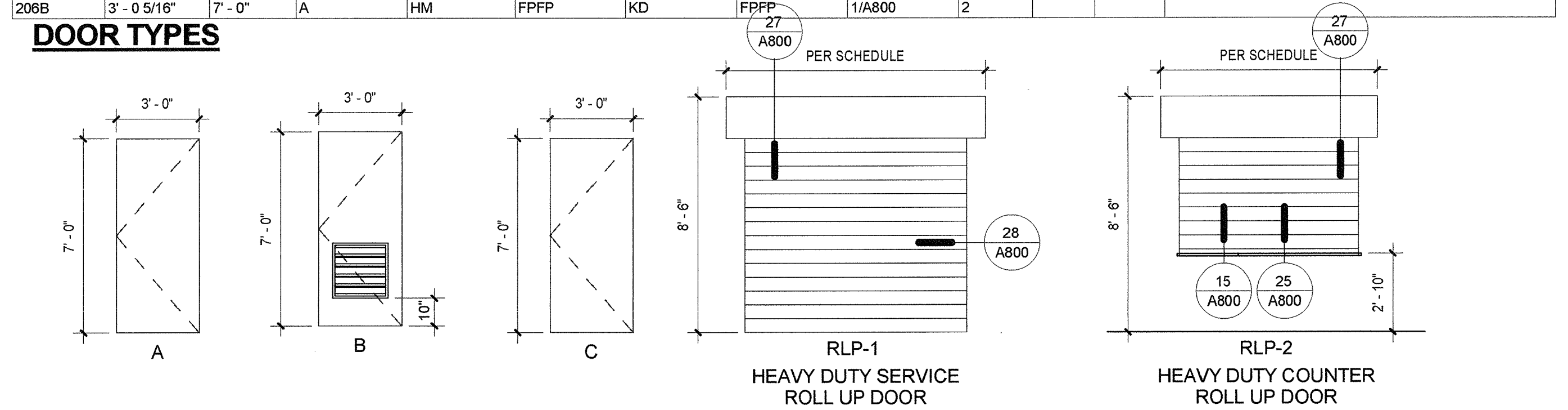
EXT. SERVICE WINDOW 1 1/2" = 1'-0" 25


CONNECTION PER WINDOW MANUF. MINIMUM 1/4" DIA. SMS AT EACH END AND @ 24" O.C.
HARDWOOD (OAK) SHIMS AT ANCHOR LOCATIONS
SEALANT TO MATCH FRAME COLOR
SHIM AS REQUIRED ATTACH WITH (2) #12 SHEET METAL SCREWS @ 12" O.C.
CONT. INTUMESCENT SEALANT BETWEEN SHIMS
SPEAKER BATTERY OPERATED
STAINLESS STEEL COUNTER EXTENSION
PLASTIC LAMINATE COUNTER
SEALANT AND BACKER ROD
CONTINUE BUILDING PAPER OVER J-MOLD
SELF-ADHERED FLASHING
METAL LATH
7/8" EXTERIOR CEMENT PLASTER
L2X2X1/4 @ 3'-0" O.C., PROVIDE RUBBER TRIM TO COVER SHARP EDGES
BRACKET ATTACHMENT TO STUD WALL
6" X 1 1/4" X 16GA TRACK CONT. LENGTH OF CASEWORK
(3) 1/4" DIA SMS
WALL PER PLAN
2' - 0"
3' - 0"

EXT. TICKET BOOTH WINDOW 1 1/2" = 1'-0" 15

Show All												
				DOOR		FRAME		DETAILS	HARDWARE		FIRE RATING	
wt	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	THRESHOLD	GROUP	PH		REMARKS
101	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	1			
102A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
102B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
103A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
103B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	7			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
104A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			
104B	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
105A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
105B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	4			
105C	4' - 6"	4' - 4"	RLP-2	AL	AN	AL	AN	-	09			
105D	4' - 6"	4' - 4"	RLP-2	AL	AN	AL	AN	-	09			
105E	3' - 0"	7' - 0"	A									
105F	3' - 0"	7' - 0"	A									
106A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
106B	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
108	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
110	3' - 0"	7' - 0"	C	HM	FRA	KD	FRA	1/A800	5		60 MIN.	
201A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
201B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	7			WOMEN TOILET SIGNAGE - SEE DETAIL 17/_GEN-5
202A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	6			MEN TOILET SIGNAGE SEE DETAIL 20/_GEN-5
203A	7' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
203B	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			
204	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	1			
205A	3' - 0"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	3			
205B	5' - 6"	4' - 2"	RLP-1	AL	AN	AL	AN	-	09			
206A	8' - 0"	7' - 0"	RLP-1	AL	FPFP	AL	FPFP	-	8			
206B	3' - 0 5/16"	7' - 0"	A	HM	FPFP	KD	FPFP	1/A800	2			

DOOR TYPES



DOOR HARDWARE

Heading 1

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

STOREROOM FUNCTION ALLOWED PER INTERPRETATION 10-08 DSA/AC (REVISED)
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 2

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM LOCK	L9070L 06L	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 3

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 4

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM SECURITY	L9071L 06L	626	SCH
2	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

SEALS ARE SUPPLIED BY THE AL/GL STOREFRONT MANUFACTURER.

Heading 5

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	L9080L 06LLL 06L 10-072 7/8" LIP L283-150	626	SCH
1	EA	MORTISE CYLINDER	C987 138	626	FAL
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 6

3	EA	HINGE	3CB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400
INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 7

3	EA	HINGE 3CB1 4.5 X 4.5	NRP	630	IVE
1	EA	CLASSROOM HOLDBK	L9076L 06LLL 06L L283-150	626	SCH
1	EA	PUSH PLATE	8200 8" X 16" CFC	630	IVE
1	EA	DOOR PULL	VR900	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	SEALS	2891AS	AL	PEM
1	EA	DOOR SWEEP	315CN	AL	PEM
1	EA	THRESHOLD	2727A MSES10	AL	PEM

ALL SIGNAGE BY SIGNAGE SECTION 101400 INSTALL HEAD SEAL BEFORE CLOSER OR HOLDER.

Heading 8

1	EA	PADLOCK L/CYL-SFIC	KS41D1200	606	SCH
1	EA	SFIC CORE	C607	626	FAL
1	EA	HARDWARE	BALANCE OF HARDWARE BY DOOR SUPPLIER		BYO

DOOR SCHEDULE AND LEGEND

5

4

GLAZING GENERAL NOTES:

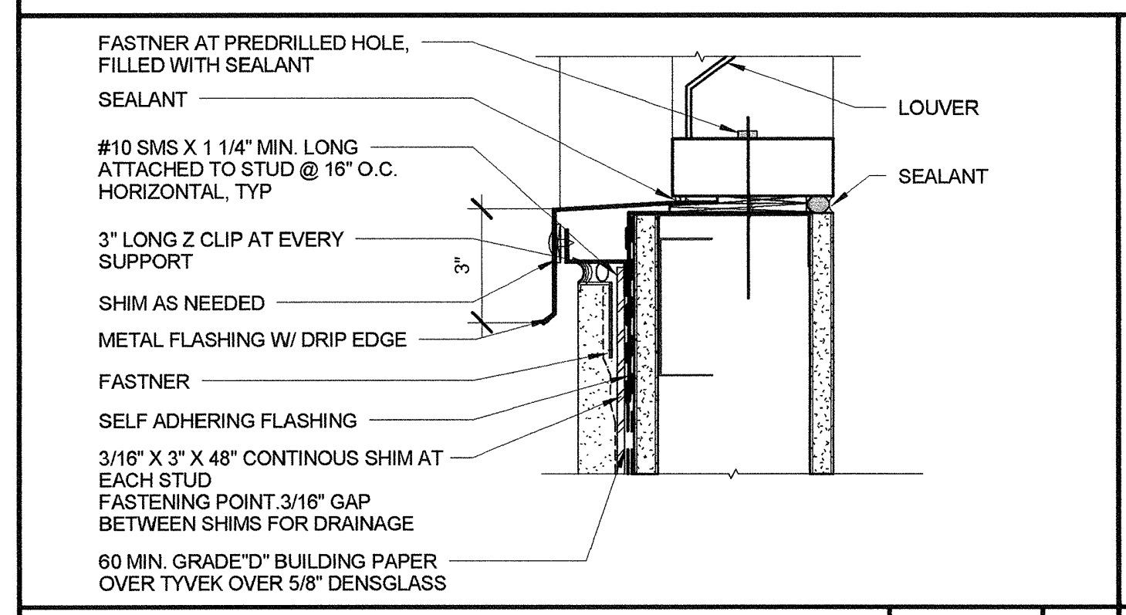
ALL SAFETY GLAZING WHERE OCCURS SHALL COMPLY WITH 2013 CBC SECTION 2406 -

1. HAZARDOUS LOCATIONS ARE DEFINED PER CBC SECTION 2406.4.
2. HUMAN IMPACT LOADS ARE DEINFED PER CBC SECTION 2406.1.
3. ALL GLAZING SHALL MEET REQUIREMENTS OF CBC SECTION 2406.1.1 THROUGH 2406.1.5, AND BE IDENTIFED PER SECTION 2406.3.

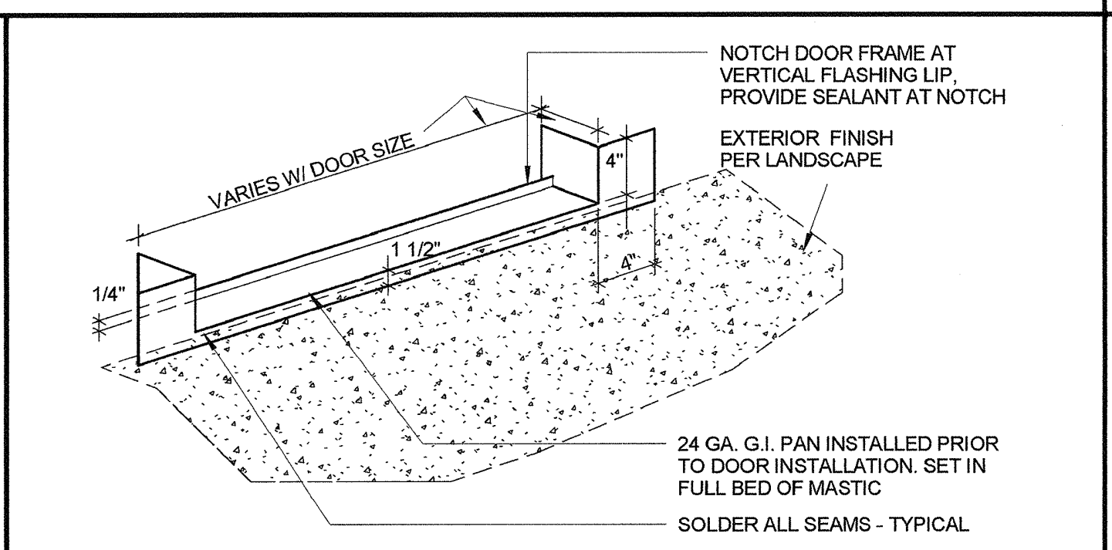
AL - ALUMINUM
AN - ANODIZED CLEAR
BZ - ANODIZED BRONZE
CC - CONCEALED CLOSER
CLR - CLEAR
FC - FLOOR CLOSER
FF - FACTORY FINISH
FLFD - FUSIBLE LINK FIRE DAMPER
FP - FIELD PAINT
FPFP - FACTORY PRIMED, FIELD PAINTED
FRA - FIRE RATED ASSEMBLY
FS - FIELD STAINED
GA - GALVANIZED
GL - GLASS OR GLAZING
GS - GALVANIZED STEEL
IG - SEALED INSULATING GLASS PER SPEC
HM - HOLLOW METAL
HMW - HOLLOW METAL FRAME - WELDED
HMK - HOLLOW METAL FRAME - KNOCK DOWN
LVR - LOUVER
LG - LAMINATED GLASS

MF - MILL FINISH
MR - MIRRORED GLASS
MAG - MAGNETIC HOLD OPEN
PR - PAIR
SCW - SOLID CORE WOOD
SMC - SURFACE MOUNTED CLOSER
ST - STEEL
SS - STAINLESS STEEL
T - TEMPERED
WG - 1/4" WIRE GLASS
KD - KNOCK DOWN FRAME
FPFP - FACTORY PRIMED, FIELD PAINTED
FRA - FIRE RATED ASSEMBLY
FS - FIELD STAINED
GA - GALVANIZED
GL - GLASS OR GLAZING
GS - GALVANIZED STEEL
IG - SEALED INSULATING GLASS PER SPEC

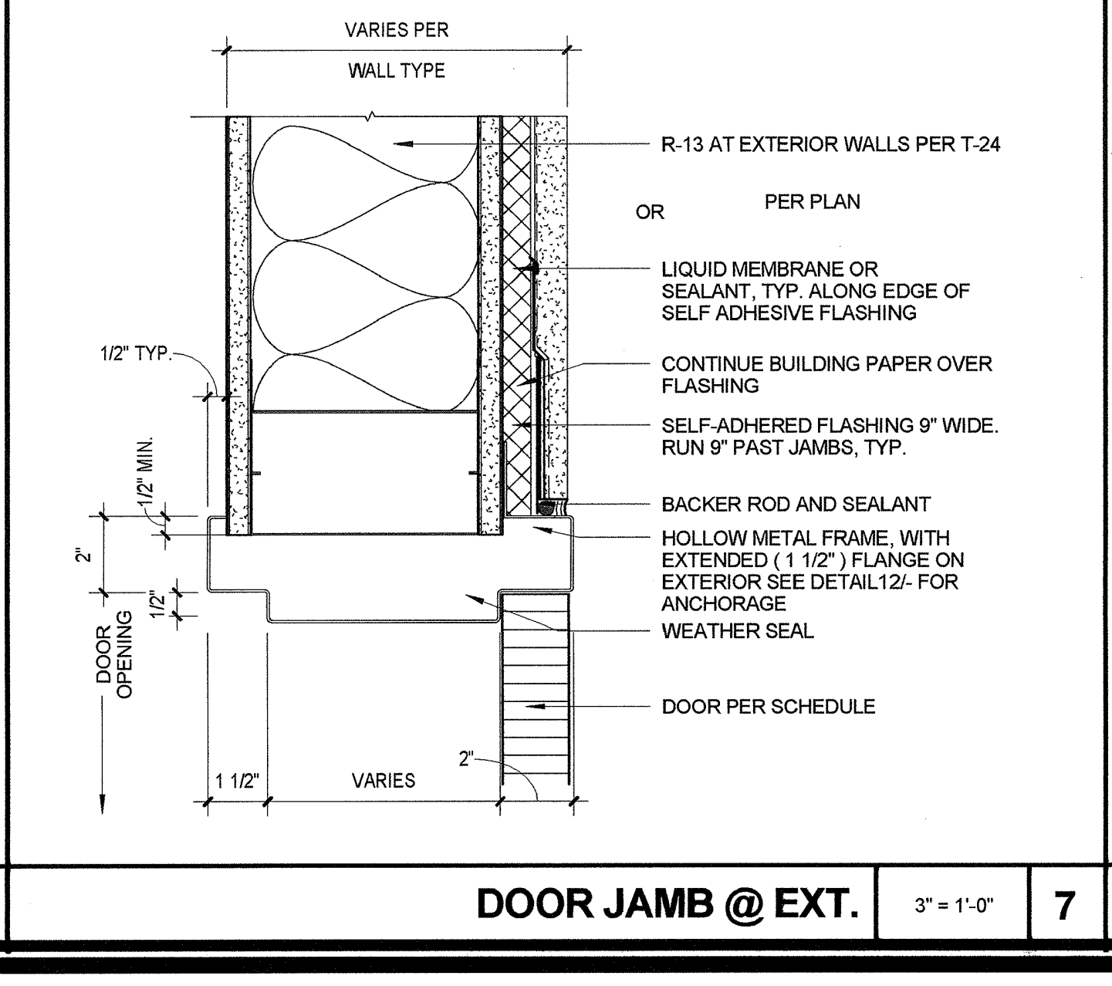
CODES TO SCHEDULES AND ABBREVIATIONS


FASTNER AT PREDRILLED HOLE, FILLED WITH SEALANT
SEALANT
#10 SMS X 1 1/4" MIN. LONG ATTACHED TO STUD @ 16" O.C. HORIZONTAL, TYP
3" LONG Z CLIP AT EVERY SUPPORT
SHIM AS NEEDED
METAL FLASHING W/ DRIP EDGE
FASTNER
SELF ADHERING FLASHING
3/16" X 3" X 48" CONTINOUS SHIM AT EACH STUD FASTENING POINT 3/16" GAP BETWEEN SHIMS FOR DRAINAGE
60 MIN. GRADE"D" BUILDING PAPER OVER TYVEK OVER 5/8" DENSGLASS
LOUVER
SEALANT

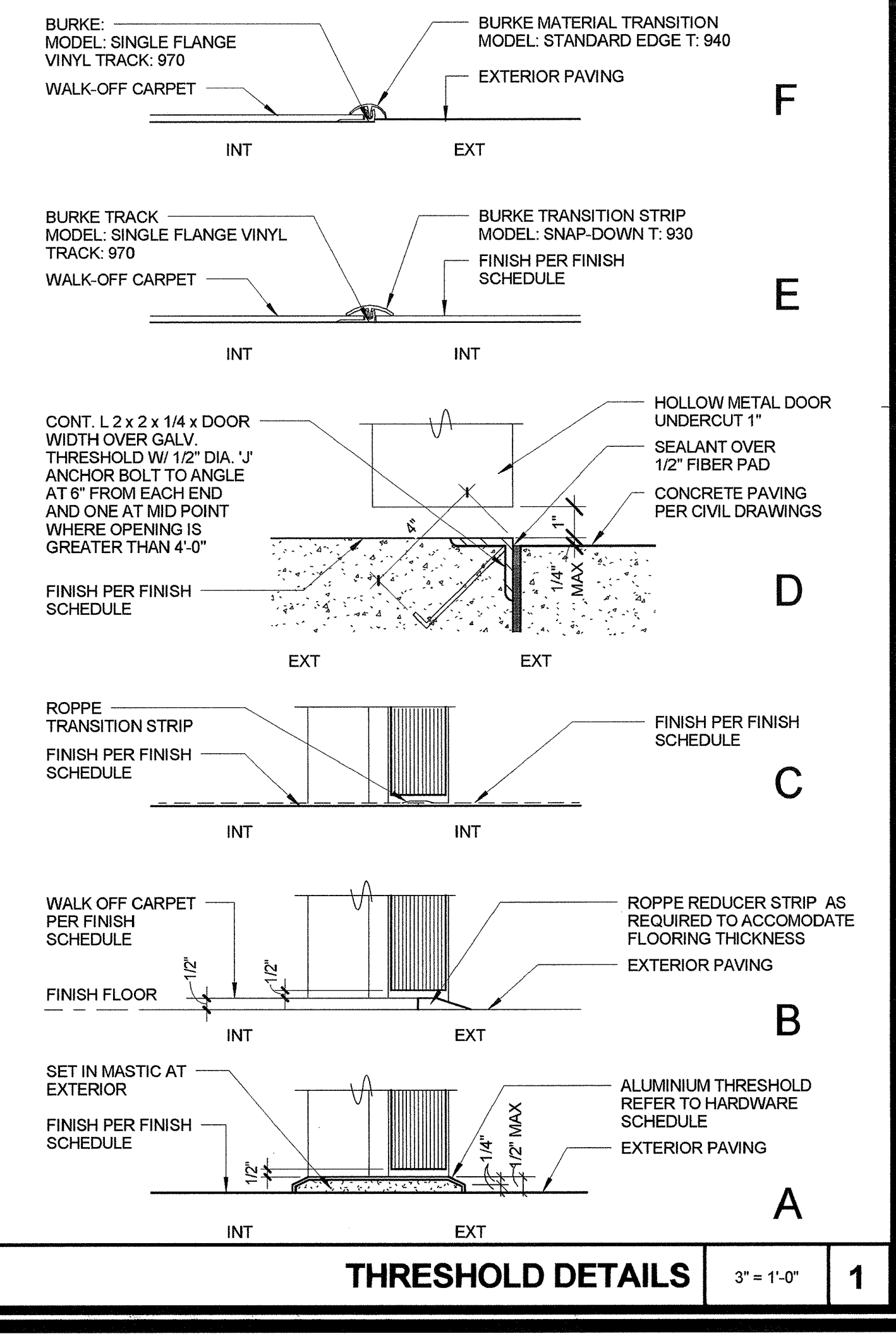
LOUVER SILL AT METAL PANEL 3" = 1'-0" 10


NOTCH DOOR FRAME AT VERTICAL FLASHING LIP, PROVIDE SEALANT AT NOTCH
EXTERIOR FINISH PER LANDSCAPE
VARIES W/ DOOR SIZE
4"
1 1/2"
1/4"
24 GA. G.I. PAN INSTALLED PRIOR TO DOOR INSTALLATION. SET IN FULL BED OF MASTIC
SOLDER ALL SEAMS - TYPICAL

EXT. DOOR THRESHOLD FLASHING 3" = 1'-0" 8


VARIES PER WALL TYPE
R-13 AT EXTERIOR WALLS PER T-24
PER PLAN
LIQUID MEMBRANE OR SEALANT, TYP. ALONG EDGE OF SELF ADHESIVE FLASHING
CONTINUE BUILDING PAPER OVER FLASHING
SELF-ADHERED FLASHING 9" WIDE. RUN 9" PAST JAMBS, TYP.
BACKER ROD AND SEALANT
HOLLOW METAL FRAME, WITH EXTENDED (1 1/2") FLANGE ON EXTERIOR SEE DETAIL12/- FOR ANCHORAGE
WEATHER SEAL
DOOR PER SCHEDULE
1/2" TYP.
1/2" MIN.
DOOR OPENING
1 1/2"
VARIES
2"

DOOR JAMB @ EXT. 3" = 1'-0" 7


BURKE: MODEL: SINGLE FLANGE VINYL TRACK: 970
WALK-OFF CARPET
BURKE MATERIAL TRANSITION MODEL: STANDARD EDGE T: 940
EXTERIOR PAVING
INT
EXT
F
BURKE TRACK MODEL: SINGLE FLANGE VINYL TRACK: 970
WALK-OFF CARPET
BURKE TRANSITION STRIP MODEL: SNAP-DOWN T: 930
FINISH PER FINISH SCHEDULE
INT
INT
E
CONT. L 2 x 2 x 1/4 x DOOR WIDTH OVER GALV. THRESHOLD W/ 1/2" DIA. "J" ANCHOR BOLT TO ANGLE AT 6" FROM EACH END AND ONE AT MID POINT WHERE OPENING IS GREATER THAN 4'-0"
FINISH PER FINISH SCHEDULE
HOLLOW METAL DOOR UNDERCUT 1"
SEALANT OVER 1/2" FIBER PAD
CONCRETE PAVING PER CIVIL DRAWINGS
EXT
EXT
D
ROPPE TRANSITION STRIP
FINISH PER FINISH SCHEDULE
FINISH PER FINISH SCHEDULE
INT
INT
C
WALK OFF CARPET PER FINISH SCHEDULE
FINISH FLOOR
ROPPE REDUCER STRIP AS REQUIRED TO ACCOMODATE FLOORING THICKNESS
EXTERIOR PAVING
INT
EXT
B
SET IN MASTIC AT EXTERIOR
FINISH PER FINISH SCHEDULE
ALUMINUM THRESHOLD REFER TO HARDWARE SCHEDULE
EXTERIOR PAVING
1/2" MAX
INT
EXT
A

THRESHOLD DETAILS 3" = 1'-0" 1

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
SCHEDULES

LICENSED ARCHITECT
JACK F. SHIVELY III
C-33467
REN 01-31-2017
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
A-0.3-M1

Project Name:	10644 - El Monte USD	NRCC-PRF-01-E	Page 1 of 17
Project Address:	3048 Tyler Ave El Monte 91731	Calculation Date/Time:	11:01, Thu, Apr 07, 2016
Compliance Scope:	NewComplete	Input File Name:	10644 - El Monte USD-conditioned only.cibd

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	El Monte	7.	# of dwelling units	0
2.	CA Zip Code	91731	8.	Compliance Software (version)	CBECC-Com 2013-3b (717)
3.	Climate Zone	9	9.	Building Orientation (deg)	(N) 0 deg
4.	Total Conditioned Floor Area	3,120 ft^2	10.	Permitted Scope of Work	NewComplete
5.	Total Unconditioned Floor Area	0 ft^2	11.	Building Type(s)	Nonresidential
6.	# of Stories (Habitable Above Grade)	1			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	17.2	10.0	7.2	41.9%
Space Cooling	68.5	52.5	16.0	23.4%
Indoor Fans	103.7	104.9	-1.2	-1.2%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	--	--	--	--
Indoor Lighting	39.8	31.1	8.7	21.9%
COMPLIANCE TOTAL	**229.2**	**198.5**	**30.7**	**13.4%**
Receptacle	25.0	25.0		0.0%
Process	67.3	67.3		0.0%
Process Ltg	--	--		--
TOTAL	**321.5**	**290.8**		**9.5%**

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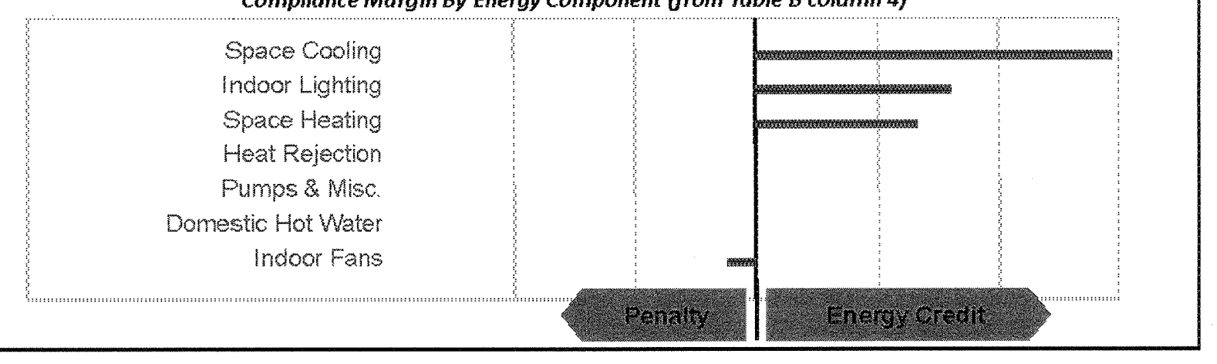
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Space Cooling: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Space Heating: Check envelope and mechanical
4th	Heat Rejection: Check envelope and mechanical
5th	Pumps & Misc.: Check mechanical
6th	Domestic Hot Water: Check mechanical
7th	Indoor Fans: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

The compliance model includes HVAC equipment with capacities that differ from the building plans, presumably to meet unmet load hour requirements. Verify that the equipment in the design provides adequate cooling and heating capacity for the spaces served.

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

The conditioned space size and fan size of the air handler are causing fatal errors in the CBECC generation process for both the baseline and proposed model calcualtions. As a result we have modeled a single heat pump serving all spaces on the project with a combined net heating and cooling capacity of two proposed units. Due to the internal issues with the fan power and volume we have increased the HP of the fan far beyond the actual design value (2.75 HP modeled vs 2 at .2 HP actual) in order to remove the fan power credit from the model. We have also indicated the restroom and storage spaces as indirectly conditioned to resolve other generation issues within CBECC. This results in those spaces having unmet load however the intent is not provide a consistent temprature in those spaces so this is not an issue. Additionally most of the building does not receive hot water so the water heater sizing generated by CBECC is inaccurate. As a result we propose to exclude the water heater from the perforance model and provide a water heater which meets the perscriptive efficency requirements.

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path		Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☒	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☒	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned)	☒	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens	☐	Performace	S2 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 03-E	
	☒	NA		
Covered Process: Computer Rooms	☐	Performance	S3 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 04-E	
	☒	NA		
Covered Process: Laboratory Exhaust	☐	Performace	S4 (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PRC-01/ 09-E	
	☒	NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	**NA**	**Prescriptive Requirement**	**Compliance Forms**	**Yes**	**NA**	**Mandatory Requirement**	**Compliance Forms**
☒	☐	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	 ☒ ☐	 ☐ ☒	Commissioning: §120.8 Simple Systems Complex Systems	 NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☒	☐	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☒	☐	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☒	☐	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	 ☐ ☐ ☐ ☐ ☐	 ☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Confirmed

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Confirmed

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☒ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Confirmed

Building Component	Compliance Forms *(required for submittal)*	Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed	
1.	Total Conditioned Floor Area	3,120 ft^2	5.	Number of Floors Above Grade	1	Pass	Fail
2.	Total Unconditioned Floor Area	0 ft^2	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft^2					
4.	Addition Unconditioned Floor Area	0 ft^2					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	1,452 ft^2	0 ft^2	00.0%	☐	☐
East Wall	1,672 ft^2	0 ft^2	00.0%	☐	☐
South Wall	1,348 ft^2	0 ft^2	00.0%	☐	☐
West Wall	1,672 ft^2	0 ft^2	00.0%	☐	☐
Total	**6,144 ft^2**	**0 ft^2**	**00.0%**	☐	☐
Roof	3,120 ft^2	0 ft^2	00.0%	☐	☐

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J. FENESTRATION SUMMARY § 110.6

This Section Does Not Apply

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Site-built fenestration less than 1,000 ft^2, or more than or equal to 1,000 ft^2 see Reference Nonresidential Appendix NA6.*

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3

1.	2.	3.	4.	5.	6.	7.	8.	Confirmed	
Surface Name	Surface Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status	Pass	Fail
R30 - TPO OVER ACT	Roof	3,120	Metal	30	NA	U-Factor: 0.054	New	☐	☐
R19 - CONC FLOOR	ExteriorFloor	3,120	Metal	19	NA	U-Factor: 0.076	New	☐	☐
R19 - 2x6 WALL	ExteriorWall	6,144	Wood	19	NA	U-Factor: 0.068	New	☐	☐
R13 - INT WALL	InteriorWall	528	Wood	13	NA	U-Factor: 0.093	New	☐	☐

L. ROOFING PRODUCT SUMMARY § 140.3

1.	2.	3.	4.	5.	6.	7.	Confirmed	
Product Type	Product ≥25 lb ft^2	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	CRRC Product ID Number	Pass	Fail
R30 - TPO OVER ACT	No	0.70	0.86	Not Provided	Yes	CRRC Prod. ID: 0662-0032	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	Confirmed	
Equip Name	Equip Type	System Type (Simple [3] or Complex [4])	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N) [5]	Pass	Fail
								Cooling	Heating			
AirSystem N	SZHP	Simple	1	38	No	0	36	SEER-15.3	HSPF-9.5	No	☐	☐

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Wet System Equipment [2]								*Pumps*				Confirmed	
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	Pass	Fail
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. R Value	Qty	GPM	HP	VSD (Y/N)		

[1] *Dry System Equipment includes furnaces, air handling units, heat pumps, etc.*

[2] *Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.*

[3] *Simple Systems must complete NRCC-CXR-03-E commissioning design review form*

[4] *Complex Systems must complete NRCC-CXR-04-E commissioning design review form*

[5] *A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS*

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	Yes

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] § 140.4

1.	2.	3.					4.					5.	Confirmed	
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)	Pass	Fail
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control			
AirSystem N	516	1200	2.750	2.750	7.27	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐

[1] *Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section*

O. EQUIPMENT CONTROLS § 120.2

1.	2.	3.	Confirmed	
Equip Name	Equip Type	Controls	Pass	Fail
AirSystem N	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(i)

This Section Does Not Apply

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No

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SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

TITLE 24

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
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AC FLS SS
Date FEB 0 3 2017

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SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

A-0.5A-M1

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Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) — § 140.6

1.	2.	3.	4.	5.		Confirmed	
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance		Pass	Fail
				Area Category Footnotes (Watts)	Tailored Method (Watts)	☐	☐
Grocery Sales Areas	496	224	32	0	0	☐	☐
Corridors, Restrooms, Stairs, and Support Areas	2,624	1,472	0	0	0	☐	☐
Building Totals:	3,120	1,696	32	0			

[1] *See Table 140.6-C*

[2] *See NRCC-LTI-01-E for unconditioned spaces*

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] — § 130.0

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)		Installed Watts (Conditioned)					Confirmed	
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined: CEC Default from NA8	How Wattage is Determined: According to §130.0(c)	Total Number Luminaires	Installed Watts	Pass	Fail
64W LED	2x4 LAY-IN LED	64	No	Yes	27	1,728	☐	☐

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES — § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS — § 140.9

This Section Does Not Apply

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S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS — § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS — § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
ThermalZone N	150	769.5	150	4.25

U. ENERGY USE SUMMARY

	Electric (kWh/yr)	Natural Gas (therms/yr)
Total Annual Baseline	37151.3	310.698
Total Annual Proposed	37634.7	14.1528

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT — § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Signature:
Company: Silver Creek	
Address: 2830 Barrett Ave	Signature Date: 4.7.16
City/State/Zip: 2830 Barrett Ave CA 92571	CEA Identification (If applicable):
Phone: 951.943.5393	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name:	Signature:	
Company: Silver Creek Ind		
Address: 2830 Barrett Ave	Date Signed: 4.7.16	
City/State/Zip: Perris, CA 92571	Declaration Statement Type: 2	
Phone:	Title: Director	License #: 855259
Responsible Lighting Designer Name: Silver Creek	Signature:	
Company: Silver Creek		
Address: 2830 Barrett Ave	Date Signed: 4.7.16	
City/State/Zip: CA 92571	Declaration Statement Type: 2	
Phone: 951.943.5393	Title: Director	License #: 855259
Responsible Mechanical Designer Name: Silver Creek	Signature:	
Company: Silver Creek		
Address: 2830 Barrett Ave	Date Signed: 4.7.16	
City/State/Zip: 2830 Barrett Ave CA 92571	Declaration Statement Type: 2	
Phone: 951.943.5393	Title: Director	License #: 855259

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed: Pass	Confirmed: Fail
R30 - TPO OVER ACT	Roof	Light Roof - 2/5 in. Gypsum Board - 1/2 in. Plywood - 3/4 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.		☐	☐
R19 - CONC FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed floor, 24in. OC, 7.25in., R-19 Concrete - 80 lb/ft3 - 4 in. Linoleum/cork tile - 1/4 in.		☐	☐
R19 - 2x6 WALL	ExteriorWall	Wood siding - 1/2 in. Building Paper - 1/16 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐
R13 - INT WALL	InteriorWall	Gypsum Board - 1/2 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2013-NRCC-MCH-03-E)*

1. DESIGN AIR FLOWS								2. VENTILATION (§ 120.1)									Confirmed	
CONDITIONED ZONE NAME	HEATING / COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Pass	Fail
ThermalZone N	AirSystem N	1,200	NA	NA	NA	NA	N	AirSystem N	3,120	0.17	43	12	516	516	NA	N	☐	☐
								TOTAL	3,120		43		516	516	NA		☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh): Heating	Rated Capacity (kBtuh): Cooling	Economizer	Zone Name	Airflow (cfm): Design	Airflow (cfm): Min.	Airflow (cfm): Min. Ratio	Fan: BHP	Fan: Cycles	Fan: ECM Motor	Pass	Fail
TerminalUnit N	Uncontrolled	1	NA	NA	NA	ThermalZone N	1200	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)*

This Section Does Not Apply

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2013-NRCC-MCH-01-E)* — § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
AirSystem N	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — § 140.6

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)				Control Credit Calculation			√ If Acceptance Test Required	Confirmed	
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Concession S	Grocery Sales Areas	- none specified -	1	128	0.00	0		☐	☐
Unconditioned South	Corridors, Restrooms, Stairs, and Support Areas	- none specified -	1	768	0.00	0		☐	☐
Concession N	Grocery Sales Areas	CombinedManualDimmingPlusPartialOnOccupantSensingControl	1	128	0.25	32		☐	☐
Unconditioned North	Corridors, Restrooms, Stairs, and Support Areas	- none specified -	1	704	0.00	0		☐	☐

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B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — § 130.1

This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — § 140.6

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — § 140.6(c) 3H

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

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G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed: Pass	Confirmed: Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) — § 130.4

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A		
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors		☒	☐	☐	☐	☐	☐
Automatic Time Switch		☒	☐	☐	☐	☐	☐
Automatic Daylighting		☐	☐	☐	☐	☐	☐
Demand Responsive		☐	☐	☐	☐	☐	☐
Outdoor Controls		☐	☐	☐	☒	☐	☐

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ENERGY
COMPLIANCE FORMS

C-33467
REN 01-31-2017

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SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

A-0.5B-M1

CLASSROOM/WORKROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	19
Floor (min. R value)	19
Roof (min. R value)	30
HVAC	
Tonnage	3
Min. EER	9
Occupancy Sensor	YES
DCV	YES

CLASSROOM/WORKROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	19
Floor (min. R value)	19
Roof (min. R value)	30
HVAC	
Tonnage	3
Min. Seer	14
Occupancy Sensor	YES
DCV	YES

RESTROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - NO SPACE CONDITIONING SYSTEM - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	13
Floor (min. R value)	19
Roof (min. R value)	19
HVAC	
Tonnage	NONE
Min. Seer	NONE
Occupancy Sensor	YES - ON/OFF ONLY
DCV	NO

LEGEND

Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE

Buildings utilizing an exterior wall constructed of steel stud framing shall have min. R4 continuous rigid insulation (EPS or EPX material) on the interior side of the wall.
Windows shall be IWC 6200 horizontal slider (SB 60 / Clr) or equal (Min), U-Factor - .510 (Max), SHGC = .350 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 0.500 (Max)
Buildings located in climate zone 16 shall utilize a 5kw electric resistance heating strip for supplemental heating.

DESIGN ENERGY VALUES BY ZONE 1

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
   A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
   B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
   C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
   I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
   II. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
   III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOE EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 8. THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOE EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRJ/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

ACOUSTICAL CONTROL

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. WHEN THE PC BUILDING IS PLACED DIRECTLY ADJACENT TO ANOTHER PC BUILDING, THE ADJOINING WALL SECTION FOR THE INTERIOR SOUND TRANSMISSION MUST MEET THE MINIMUM REQUIREMENTS OF STC RATING OF 40 PER SECTION 507.4.3, THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS

ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS

ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS

ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD

ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM.

CEILING & WALL SYSTEMS

ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS

ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS

ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

BUILDING COMMISSIONING, BUILDINGS OVER 10,000 SF

BUILDINGS GREATER THAN 10,000 SQUARE FEET SHALL HAVE BUILDING COMMISSIONING COMPLIANCE PER TITLE 24, PART 6, SECTION 120.8 (a):

SUMMARY OF COMMISSIONING REQUIREMENTS
1. OWNERS OR OWNERS REPRESENTATIVE PROJECT REQUIREMENTS
2. BASIS OF DESIGN
3. DESIGN PHASE DESIGN REVIEW
4. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS
5. COMMISSIONING PLAN
6. FUNCTIONAL PERFORMANCE TESTING
7. DOCUMENTATION AND TRAINING; AND
8. COMMISSIONING REPORT

CALGREEN SPECIFICATIONS 2

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc SHALL BE THE PROPERTY OF SCI Inc

SILVER CREEK INDUSTRIES, INC.

SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

DESIGN ENERGY VALUES BY ZONE & CALGREEN SPEC'S

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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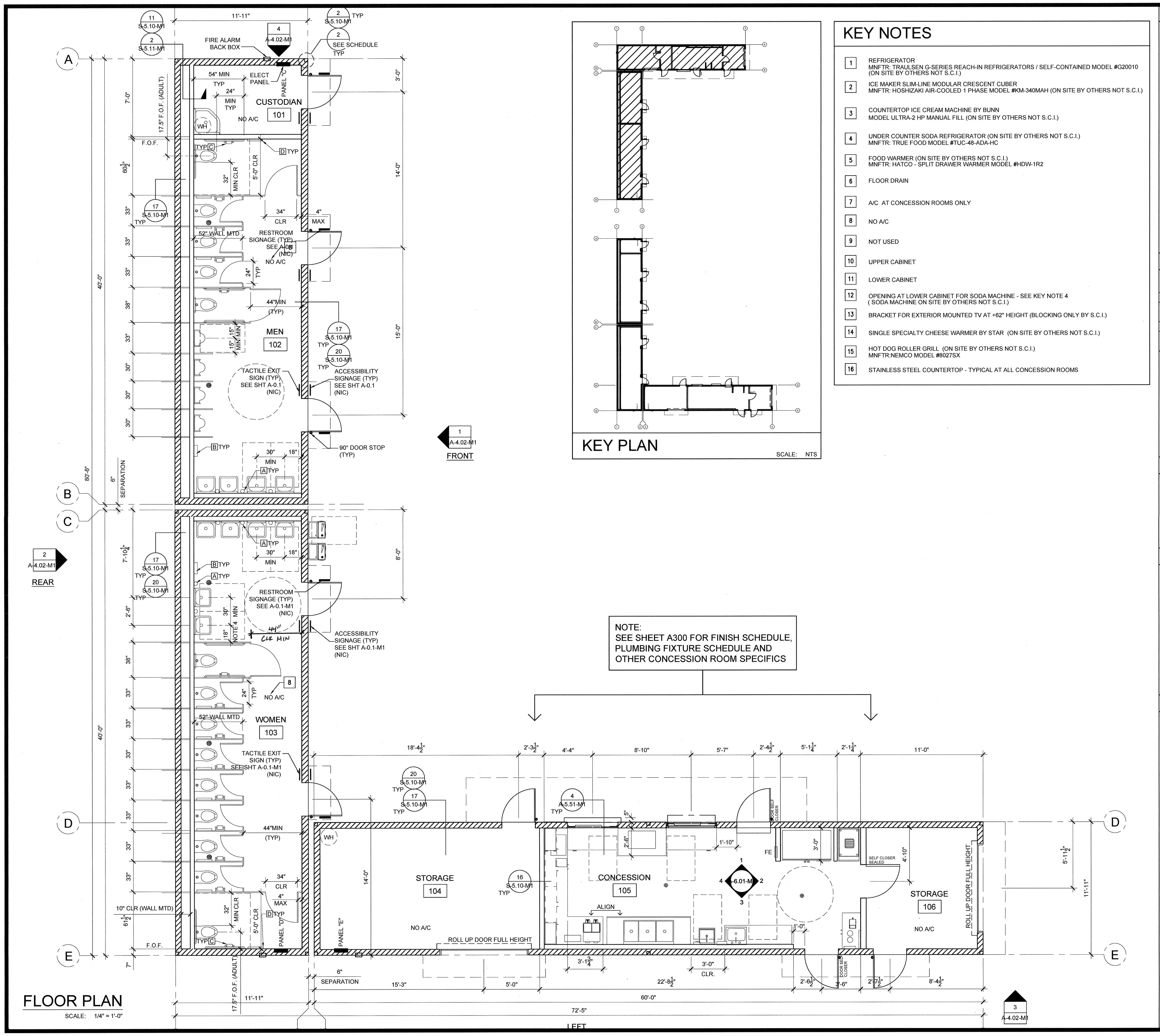
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

A-0.7-M1



FLOOR PLAN

SCALE: 1/4" = 1'-0"

KEY PLAN

SCALE: NTS

NOTE:
SEE SHEET A300 FOR FINISH SCHEDULE, PLUMBING FIXTURE SCHEDULE AND OTHER CONCESSION ROOM SPECIFICS

KEY NOTES

1	REFRIGERATOR MNFTR: TRAULSEN G-SERIES REACH-IN REFRIGERATORS / SELF-CONTAINED MODEL #G20010 (ON SITE BY OTHERS NOT S.C.I.)
2	ICE MAKER SLIM-LINE MODULAR CRESCENT CUBER MNFTR: HOSHIZAKI AIR-COOLED 1 PHASE MODEL #KM-340MAH (ON SITE BY OTHERS NOT S.C.I.)
3	COUNTERTOP ICE CREAM MACHINE BY BUNN MODEL ULTRA-2 HP MANUAL FILL (ON SITE BY OTHERS NOT S.C.I.)
4	UNDER COUNTER SODA REFRIGERATOR (ON SITE BY OTHERS NOT S.C.I.) MNFTR: TRUE FOOD MODEL #TUC-48-ADA-HC
5	FOOD WARMER (ON SITE BY OTHERS NOT S.C.I.) MNFTR: HATCO - SPLIT DRAWER WARMER MODEL #HDW-1R2
6	FLOOR DRAIN
7	A/C AT CONCESSION ROOMS ONLY
8	NO A/C
9	NOT USED
10	UPPER CABINET
11	LOWER CABINET
12	OPENING AT LOWER CABINET FOR SODA MACHINE - SEE KEY NOTE 4 (SODA MACHINE ON SITE BY OTHERS NOT S.C.I.)
13	BRACKET FOR EXTERIOR MOUNTED TV AT +62" HEIGHT (BLOCKING ONLY BY S.C.I.)
14	SINGLE SPECIALTY CHEESE WARMER BY STAR (ON SITE BY OTHERS NOT S.C.I.)
15	HOT DOG ROLLER GRILL (ON SITE BY OTHERS NOT S.C.I.) MNFTR:NEMCO MODEL #8027SX
16	STAINLESS STEEL COUNTERTOP - TYPICAL AT ALL CONCESSION ROOMS

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (PER IR 16-1.13)

   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME, SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, Kzt = 1.0, 2013 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER S_S

2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7.
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CBC 1004.3 & TITLE 19 C.C.R. (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS REL-101 & REL-102.
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBERS. PER IR-16-1.13

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50-M1
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1
☐ SIDING OVER STEEL STUDS	A-5.60-M1
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61-M1

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" MIN CLEAR SPACE

TOILET ACCESSORIES

A	SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
B	PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED, 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
C	TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
D	TOILET SEAT DISPENSER: SURFACE MOUNTED

ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-2.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

WALL LEGEND

NOMINAL 4" WALL STUD ☒

NOMINAL 6" WALL STUD ☒

NOMINAL 8" WALL STUD ☐

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.7)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
FLOOR PLAN

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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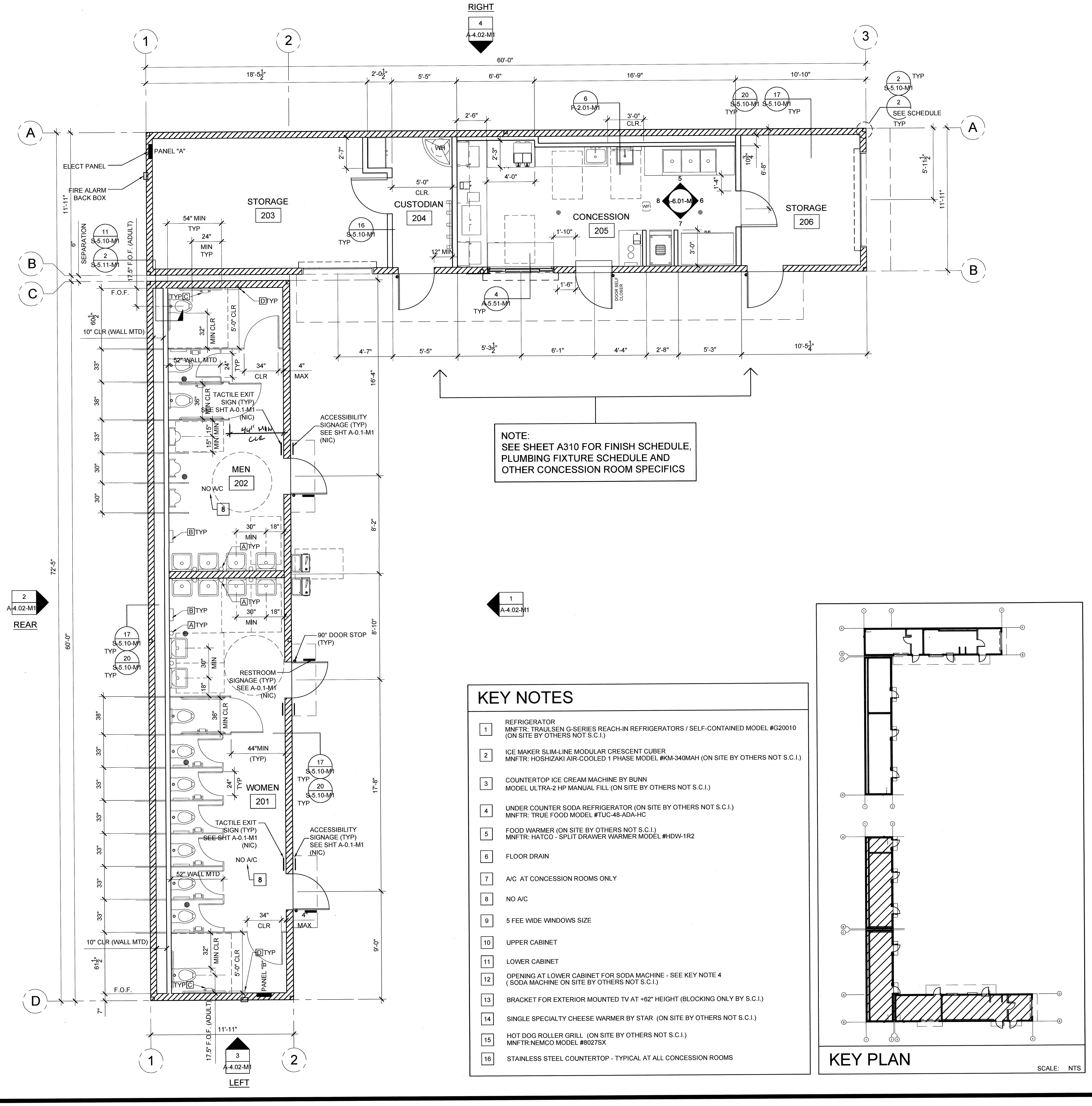
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
A-1.01-M1



NOTE:
SEE SHEET A310 FOR FINISH SCHEDULE,
PLUMBING FIXTURE SCHEDULE AND
OTHER CONCESSION ROOM SPECIFICS

KEY NOTES

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8	NO A/C
9	5 FEE WIDE WINDOWS SIZE
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11	LOWER CABINET
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KEY PLAN

SCALE: NTS

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3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CBC 1004.3 & TITLE 19 C.C.R. (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS REL-101 & REL-102.
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBERS. PER IR-16-1.13

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50-M1
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1
☐ SIDING OVER STEEL STUDS	A-5.60-M1
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61-M1

SYMBOLS LEGEND

◯	60" CIRCLE CLEAR SPACE
▭	30"x48" MIN CLEAR SPACE

TOILET ACCESSORIES

A	SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
B	PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED, 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
C	TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
D	TOILET SEAT DISPENSER: SURFACE MOUNTED

ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-2.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

WALL LEGEND

═	NOMINAL 4" WALL STUD ☒
▨	NOMINAL 6" WALL STUD ☒
▩	NOMINAL 8" WALL STUD ☐

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.7)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
FLOOR PLAN

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N FLS EB SS
Date FEB 0 3 2017

REVISIONS
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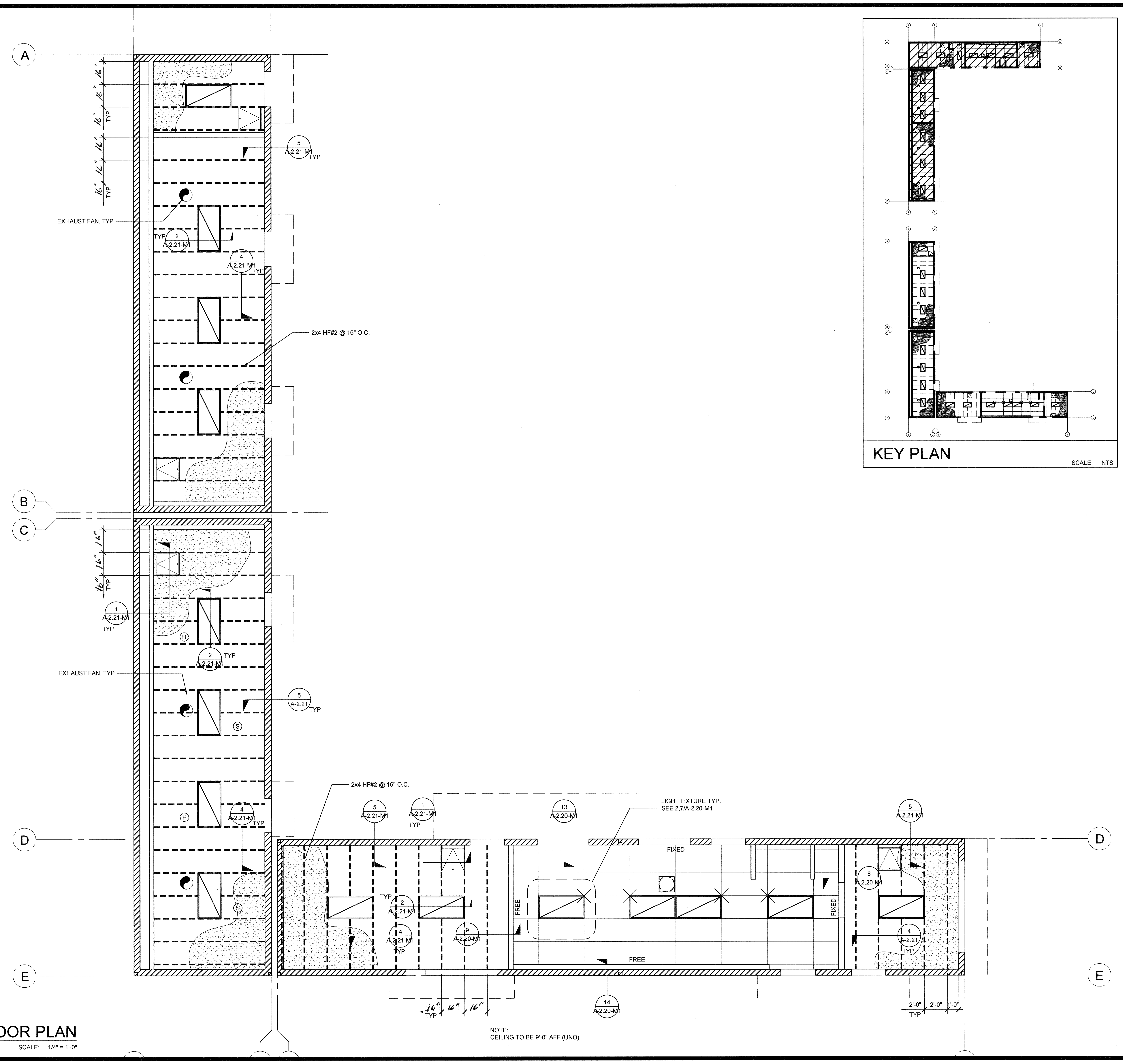
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
A-1.02-M1



FLOOR PLAN

SCALE: 1/4" = 1'-0"

LEGEND

▨	2' x 4' RECESSED LIGHT FIXTURE
▭	"OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
╳	SPLAY WIRE & COMP STRUT
◐ ◩	CEILING EXHAUST FAN
Ⓞ	CEILING MOUNTED OCCUPANCY SENSOR
Ⓟ	CEILING MOUNTED PHOTOCELL
Ⓢ	CEILING MOUNTED SMOKE DETECTOR
Ⓗ	ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

LATERAL FORCE BRACE SPACING

SEE DETAIL 3, 4 & 5 / A-2.20

DESIGN SPECTRAL ACCELERATION PARAMETER (S_{DS})	BRACE ASSEMBLY SPACING
GREATER THAN 1.15 AND LESS THAN OR EQ. TO 1.73	8' X 12' - FOR z/h GREATER THAN 0.5 12'X12' FOR z/h LESS THAN OR EQUAL TO 0.5

z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING W/ RESPECT TO BASE.
h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
THERE SHALL BE A BRACE ASSEMBLY A DISTANCE NOT MORE THAN 1/2 OF THE ABOVE SPACING FROM EACH SURROUNDING WALL & EXPANSION JOINT.

T-BAR SCHEDULE

HEAVY DUTY ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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SILVER
CREEK
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

REFLECTED CEILING
PLAN

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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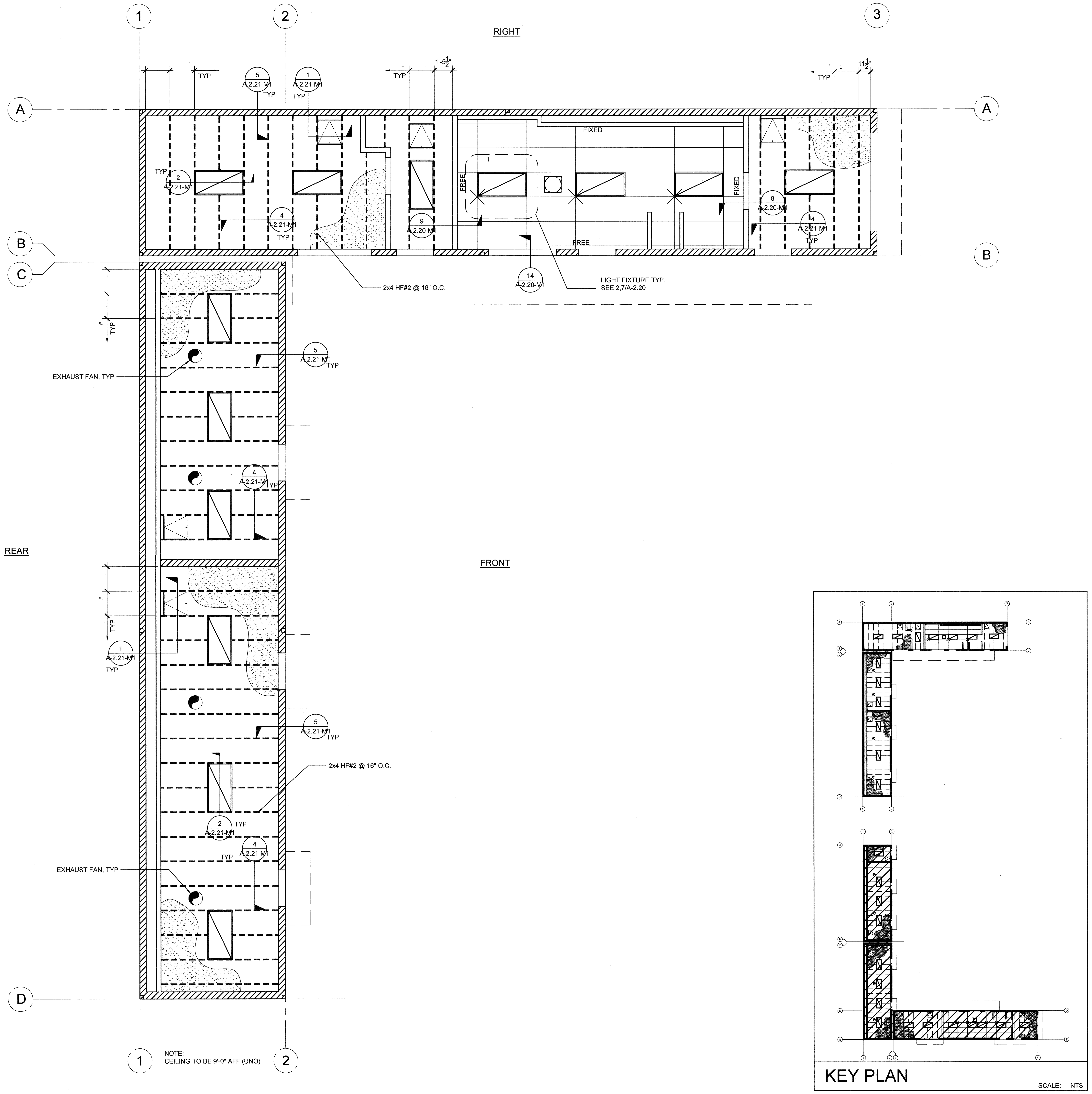
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

A-2.01-M1



NOTE:
CEILING TO BE 9'-0" AFF (UNO)

KEY PLAN

SCALE: NTS

REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" 1

LEGEND

- ▭ 2' x 4' RECESSED LIGHT FIXTURE
- ▭ "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- × SPLAY WIRE & COMP STRUT
- ◐ ◪ CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

LATERAL FORCE BRACE SPACING

SEE DETAIL 3, 4 & 5 / A-2.20

DESIGN SPECTRAL ACCELERATION PARAMETER (S_{DS})	BRACE ASSEMBLY SPACING
GREATER THAN 1.15 AND LESS THAN OR EQ. TO 1.73	8' X 12' - FOR z/h GREATER THAN 0.5 12'X12' FOR z/h LESS THAN OR EQUAL TO 0.5

z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING W/ RESPECT TO BASE.
h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
THERE SHALL BE A BRACE ASSEMBLY A DISTANCE NOT MORE THAN 1/2 OF THE ABOVE SPACING FROM EACH SURROUNDING WALL & EXPANSION JOINT.

T-BAR SCHEDULE

HEAVY DUTY ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
REFLECTED CEILING PLAN

JACK F. SHIVELY III
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SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
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SHEET NUMBER
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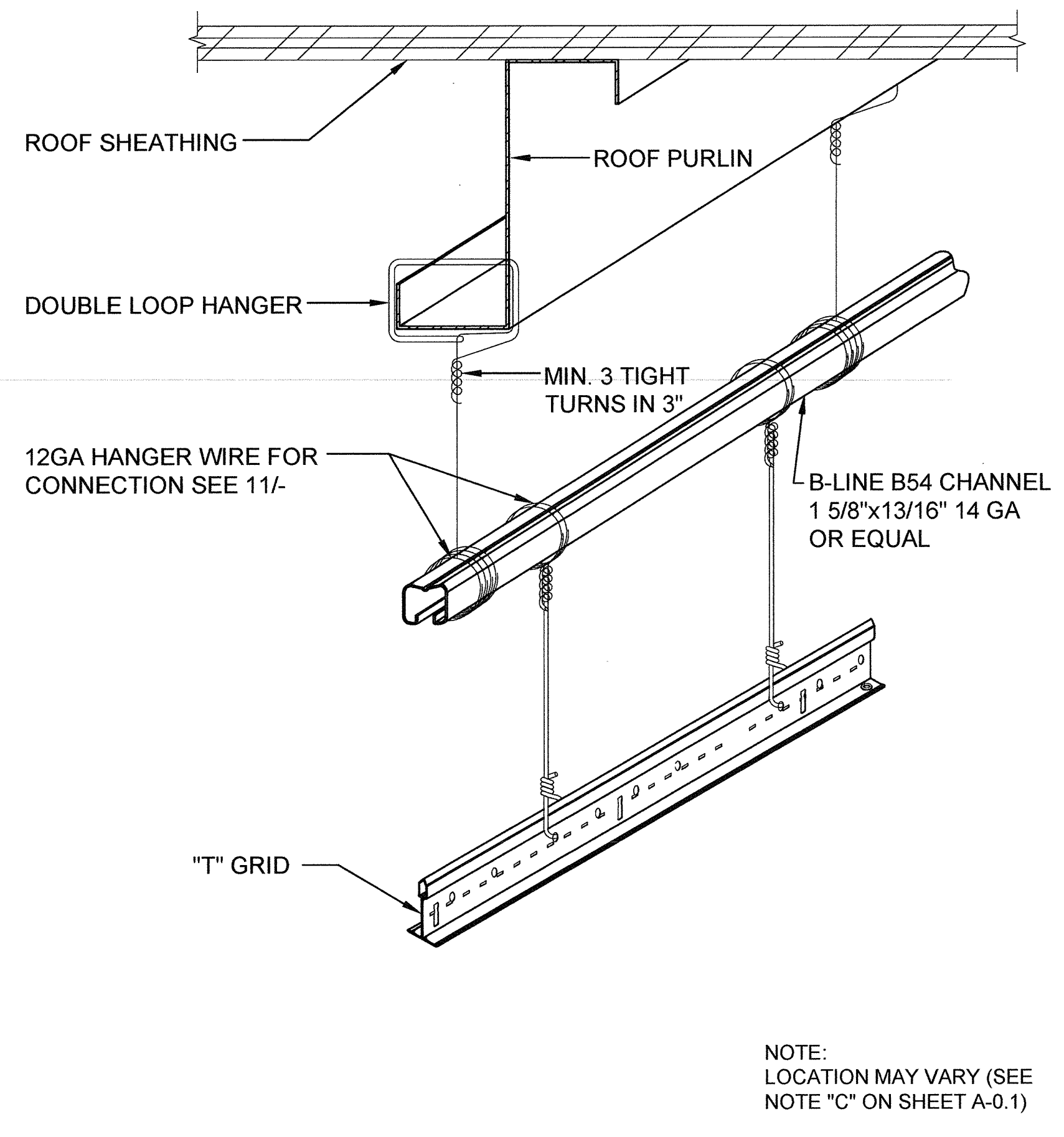
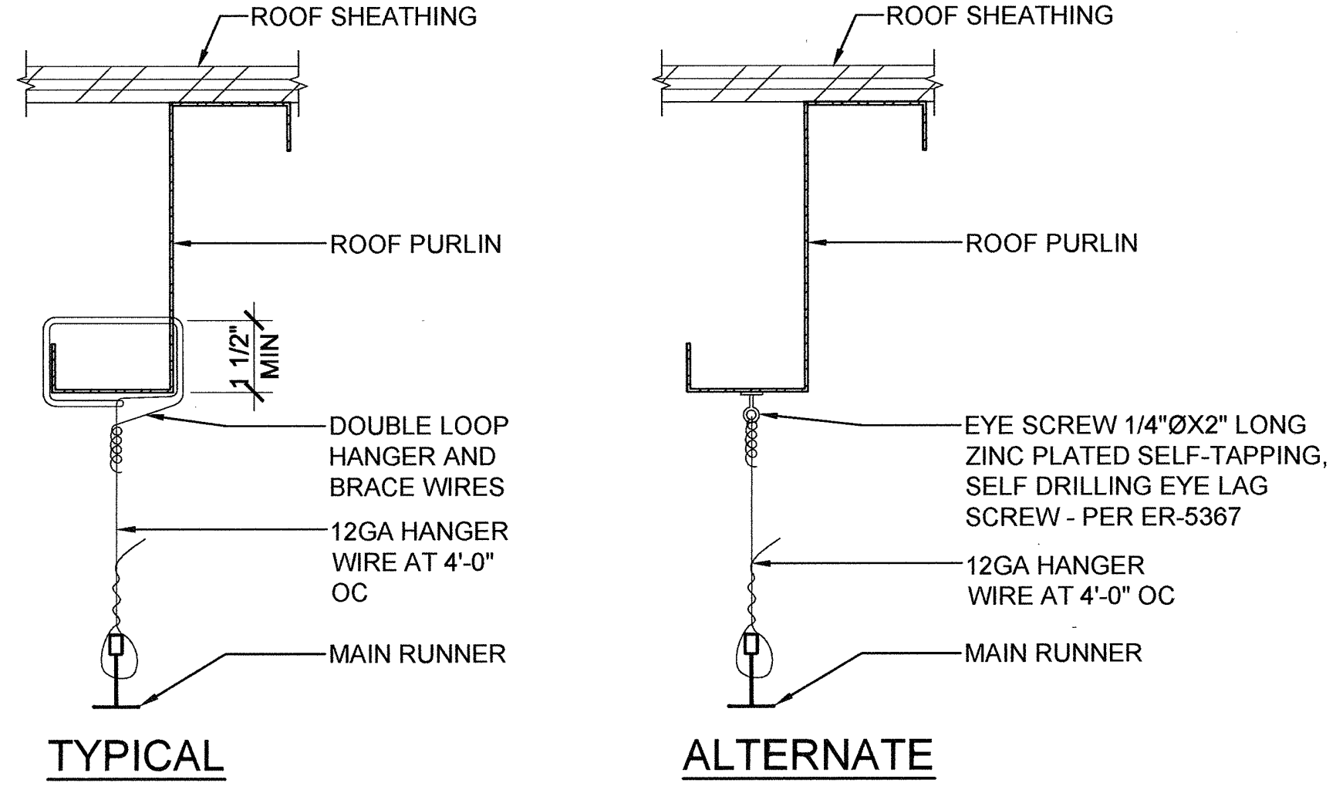
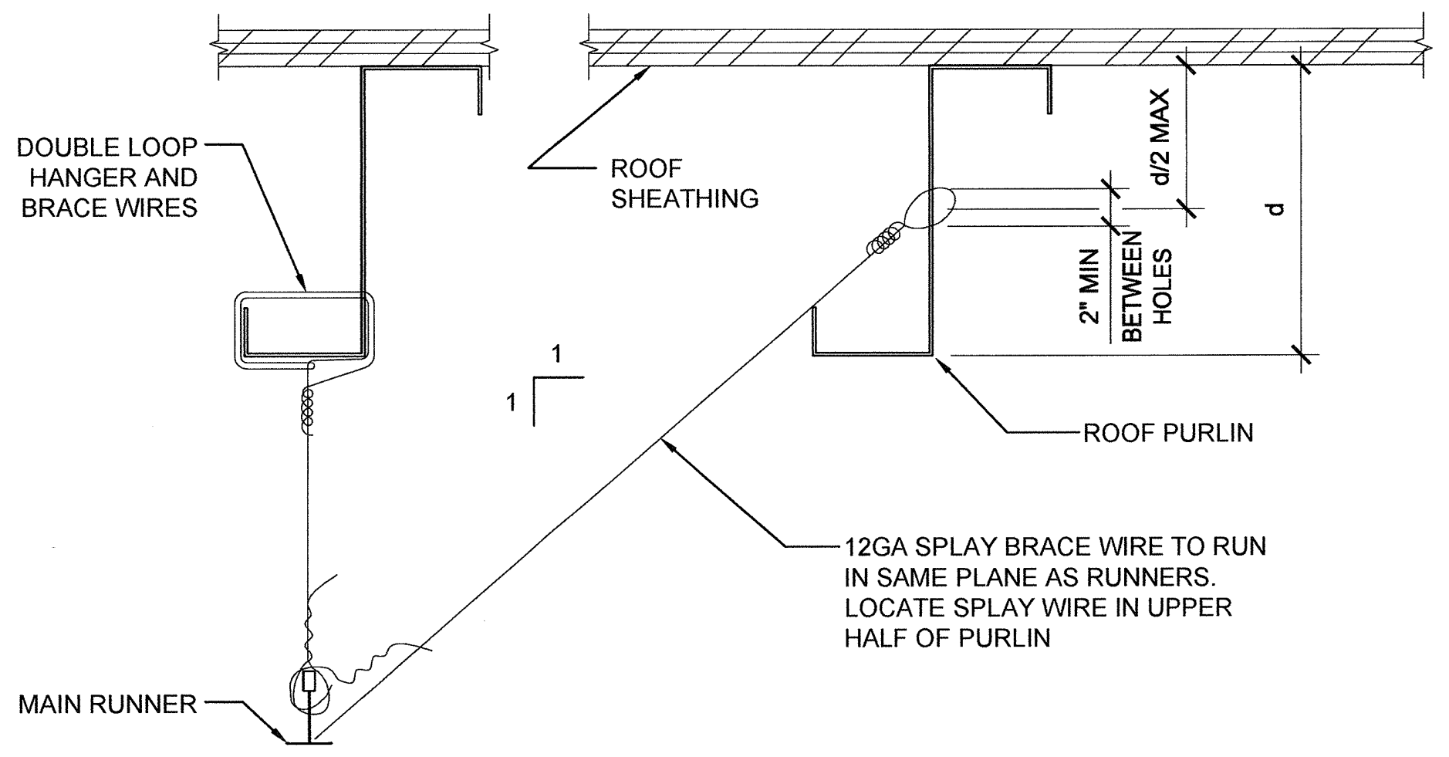

ROOF SHEATHING
ROOF PURLIN
DOUBLE LOOP HANGER
MIN. 3 TIGHT TURNS IN 3"
12GA HANGER WIRE FOR CONNECTION SEE 11/-
B-LINE B54 CHANNEL 1 5/8"x13/16" 14 GA OR EQUAL
"T" GRID

NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

TRAPEZE DETAIL 17

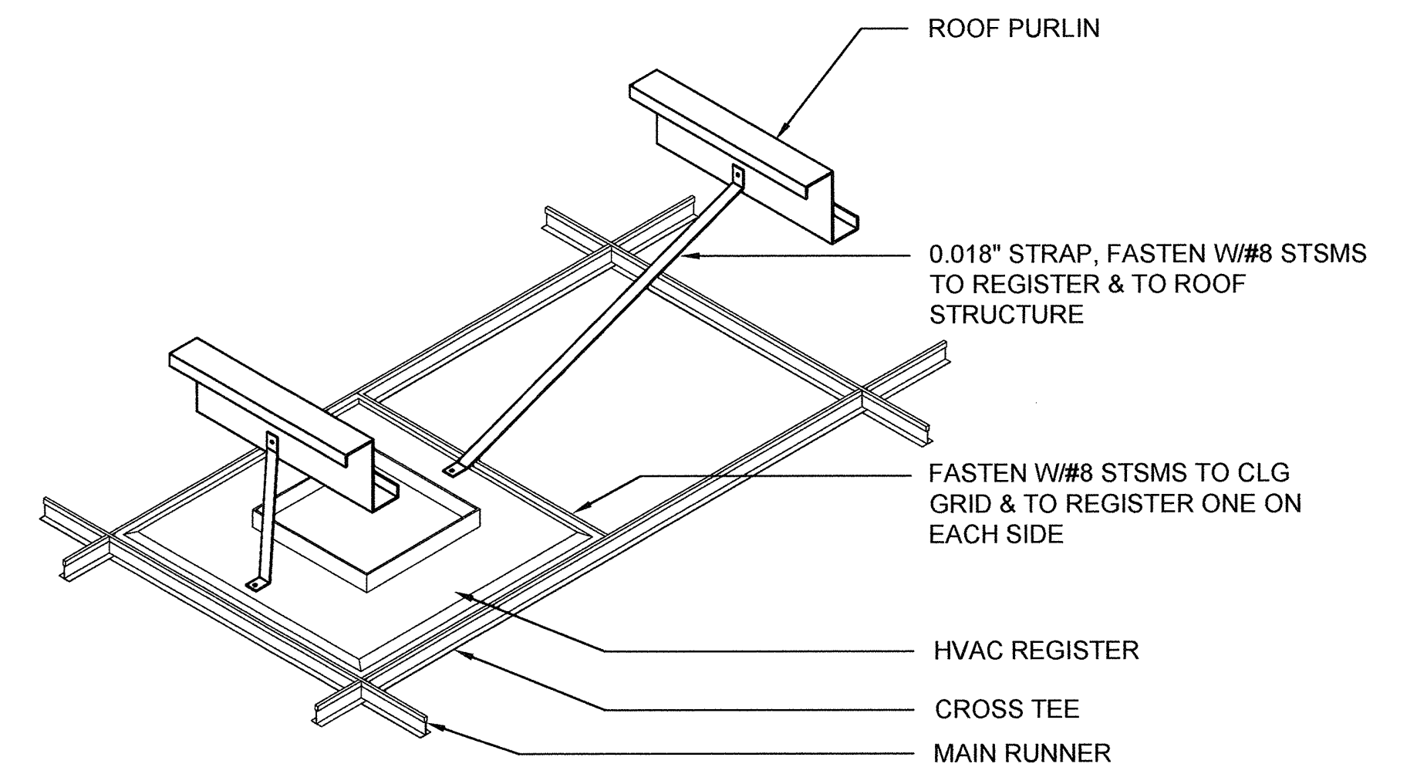

ROOF SHEATHING
ROOF PURLIN
1 1/2" MIN
DOUBLE LOOP HANGER AND BRACE WIRES
12GA HANGER WIRE AT 4'-0" OC
MAIN RUNNER
TYPICAL
ROOF SHEATHING
ROOF PURLIN
EYE SCREW 1/4"ØX2" LONG ZINC PLATED SELF-TAPPING, SELF DRILLING EYE LAG SCREW - PER ER-5367
12GA HANGER WIRE AT 4'-0" OC
MAIN RUNNER
ALTERNATE

HANGER WIRE DETAIL SCALE : 3"=1'-0" 11

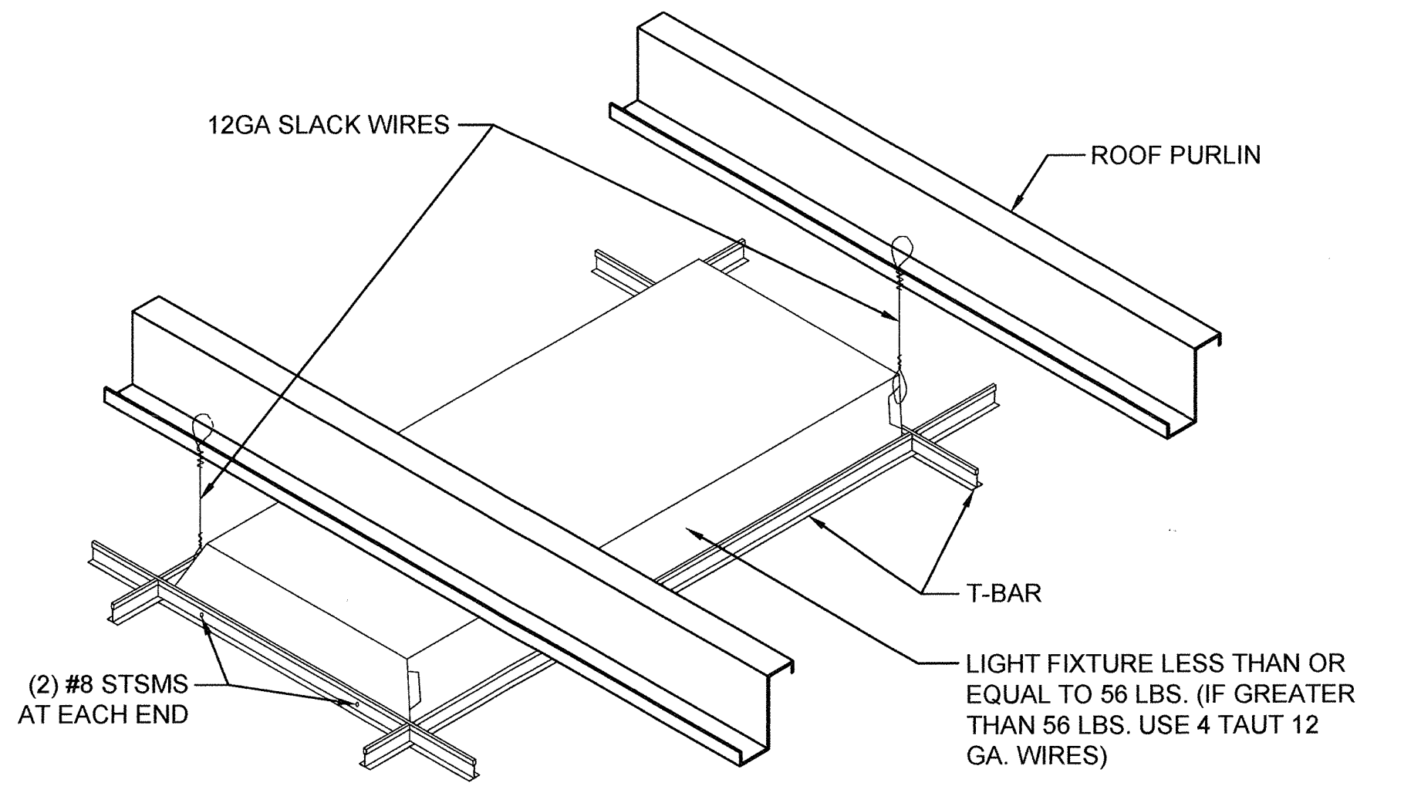

DOUBLE LOOP HANGER AND BRACE WIRES
ROOF SHEATHING
d/2 MAX
d
2" MIN BETWEEN HOLES
1
1
ROOF PURLIN
12GA SPLAY BRACE WIRE TO RUN IN SAME PLANE AS RUNNERS. LOCATE SPLAY WIRE IN UPPER HALF OF PURLIN
MAIN RUNNER

SPLAY BRACING WIRE SCALE : 3"=1'-0" 6

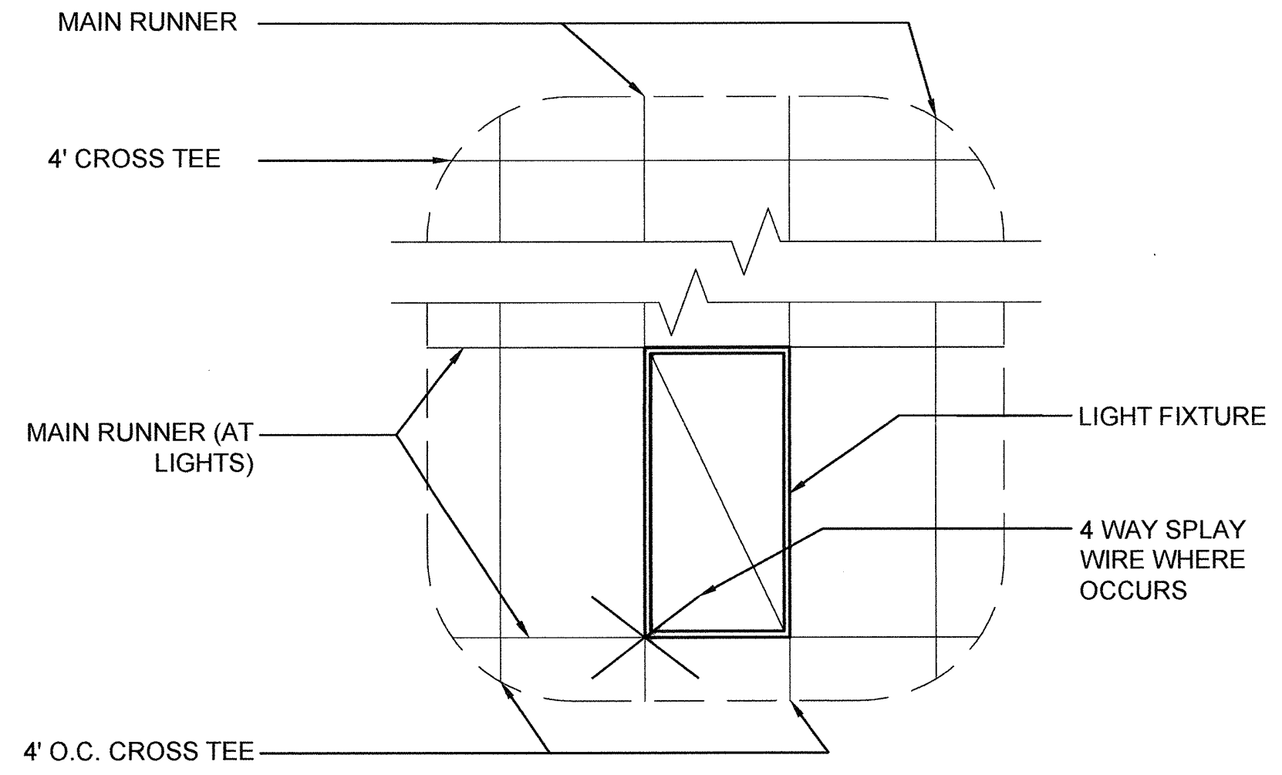
NOT USED 1


ROOF PURLIN
0.018" STRAP, FASTEN W/#8 STSMS TO REGISTER & TO ROOF STRUCTURE
FASTEN W/#8 STSMS TO CLG GRID & TO REGISTER ONE ON EACH SIDE
HVAC REGISTER
CROSS TEE
MAIN RUNNER

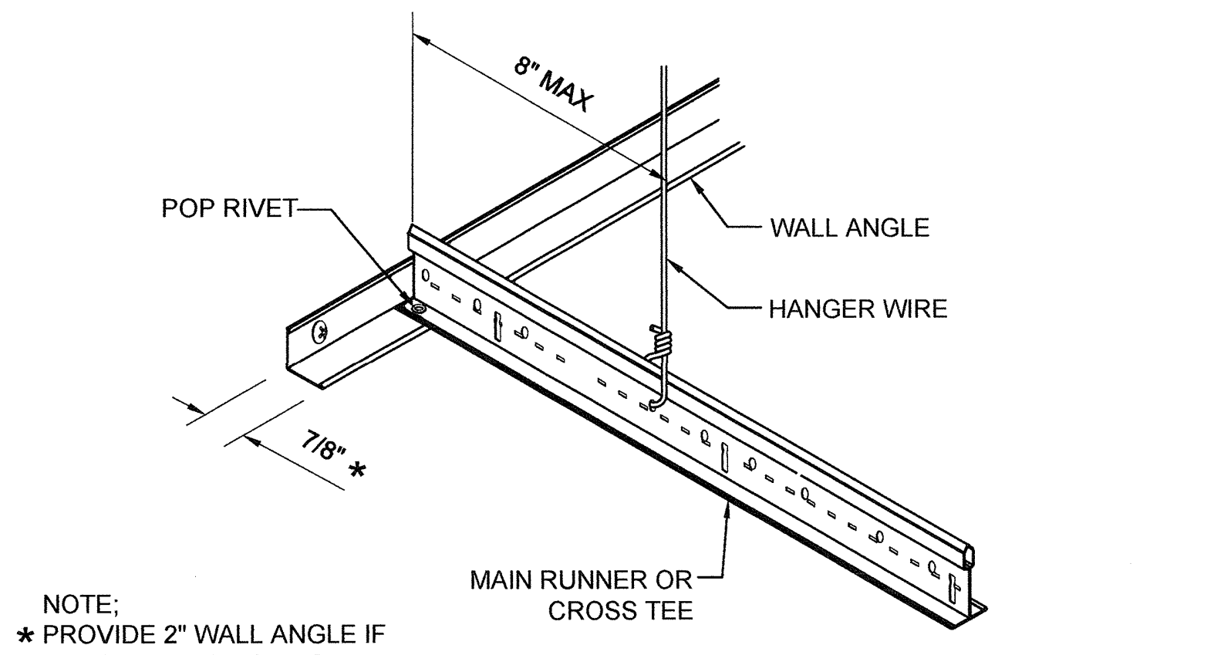
HVAC REGISTER MOUNTING SCALE : NTS 12


12GA SLACK WIRES
ROOF PURLIN
T-BAR
(2) #8 STSMS AT EACH END
LIGHT FIXTURE LESS THAN OR EQUAL TO 56 LBS. (IF GREATER THAN 56 LBS. USE 4 TAUT 12 GA. WIRES)

LIGHT FIXTURE MOUNTING SCALE : NTS 7

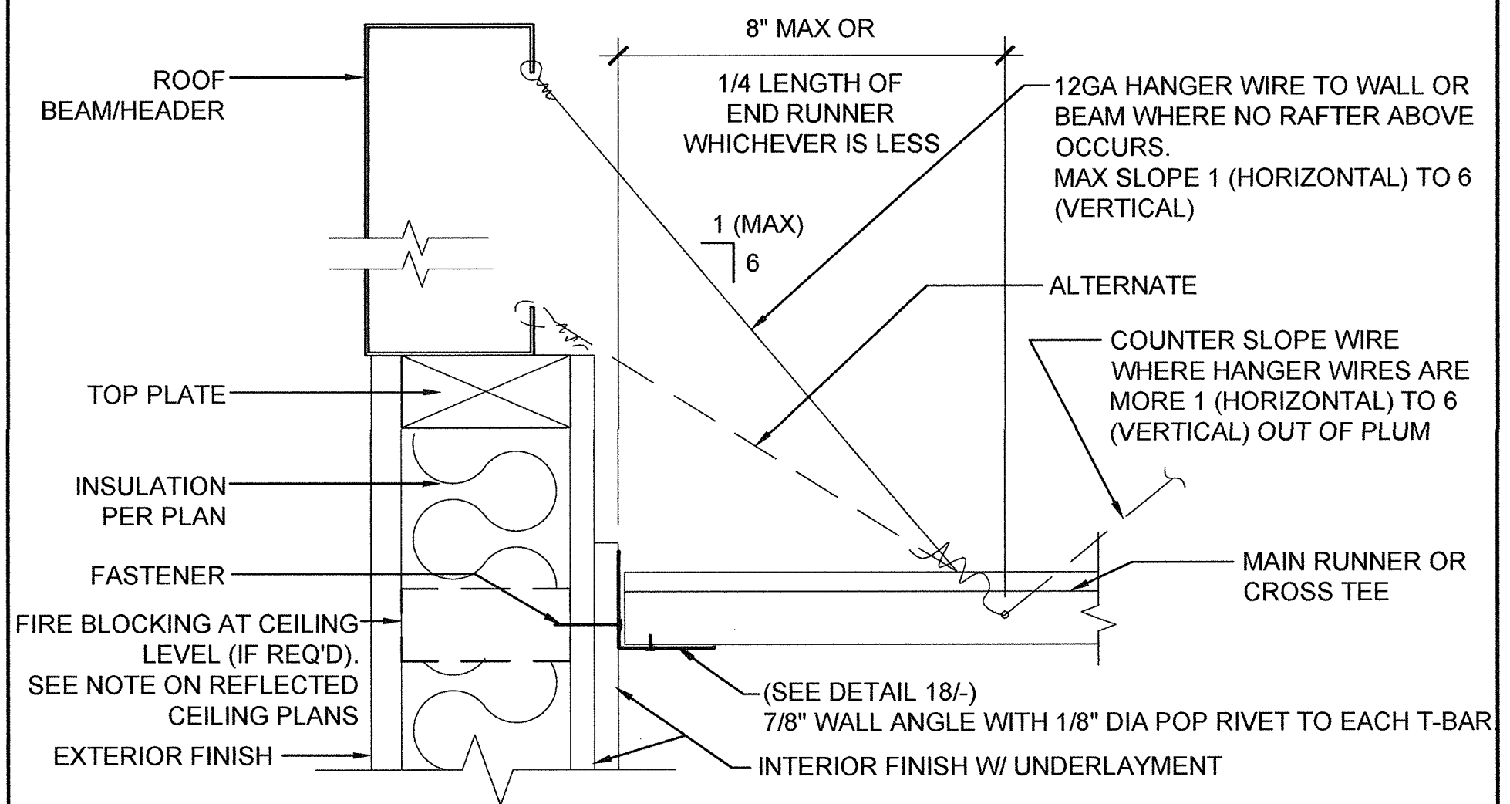


4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2

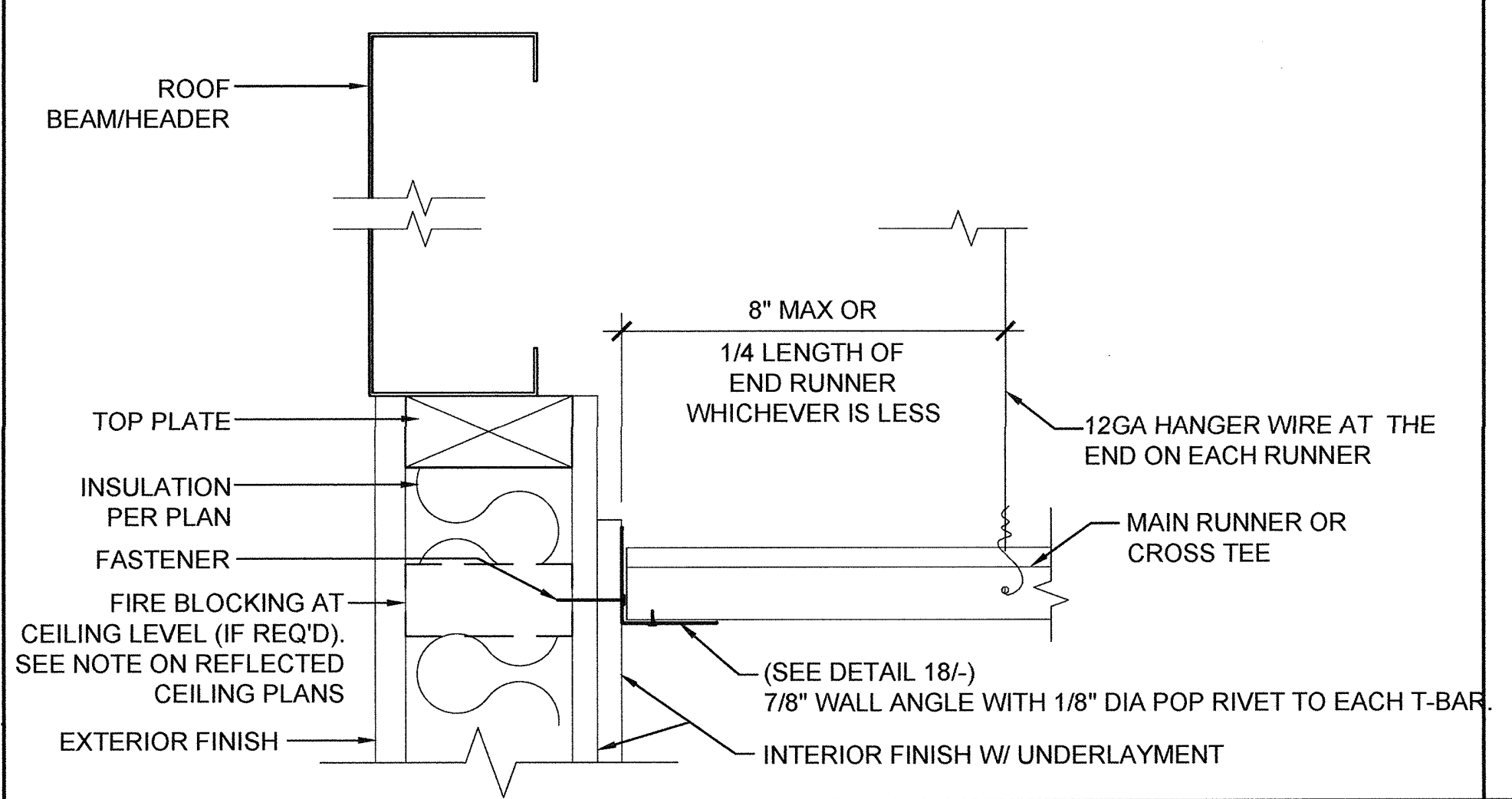


NOTE;
* PROVIDE 2" WALL ANGLE IF BREC2 CLIP IS NOT USED

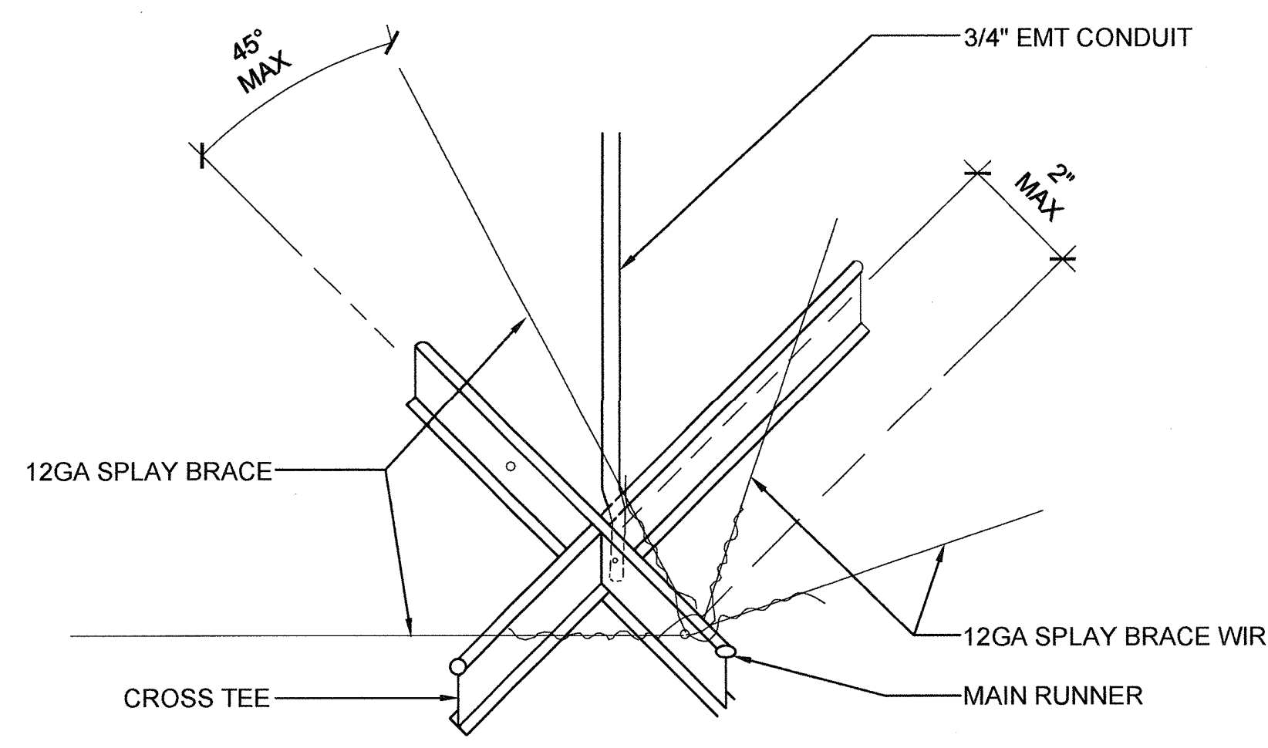
FIXED SIDE SCALE : NTS 18


ROOF BEAM/HEADER
8" MAX OR
1/4 LENGTH OF END RUNNER WHICHEVER IS LESS
12GA HANGER WIRE TO WALL OR BEAM WHERE NO RAFTER ABOVE OCCURS. MAX SLOPE 1 (HORIZONTAL) TO 6 (VERTICAL)
1 (MAX)
6
ALTERNATE
COUNTER SLOPE WIRE WHERE HANGER WIRES ARE MORE 1 (HORIZONTAL) TO 6 (VERTICAL) OUT OF PLUM
TOP PLATE
INSULATION PER PLAN
FASTENER
FIRE BLOCKING AT CEILING LEVEL (IF REQ'D). SEE NOTE ON REFLECTED CEILING PLANS
EXTERIOR FINISH
MAIN RUNNER OR CROSS TEE
(SEE DETAIL 18/-) 7/8" WALL ANGLE WITH 1/8" DIA POP RIVET TO EACH T-BAR.
INTERIOR FINISH W/ UNDERLAYMENT

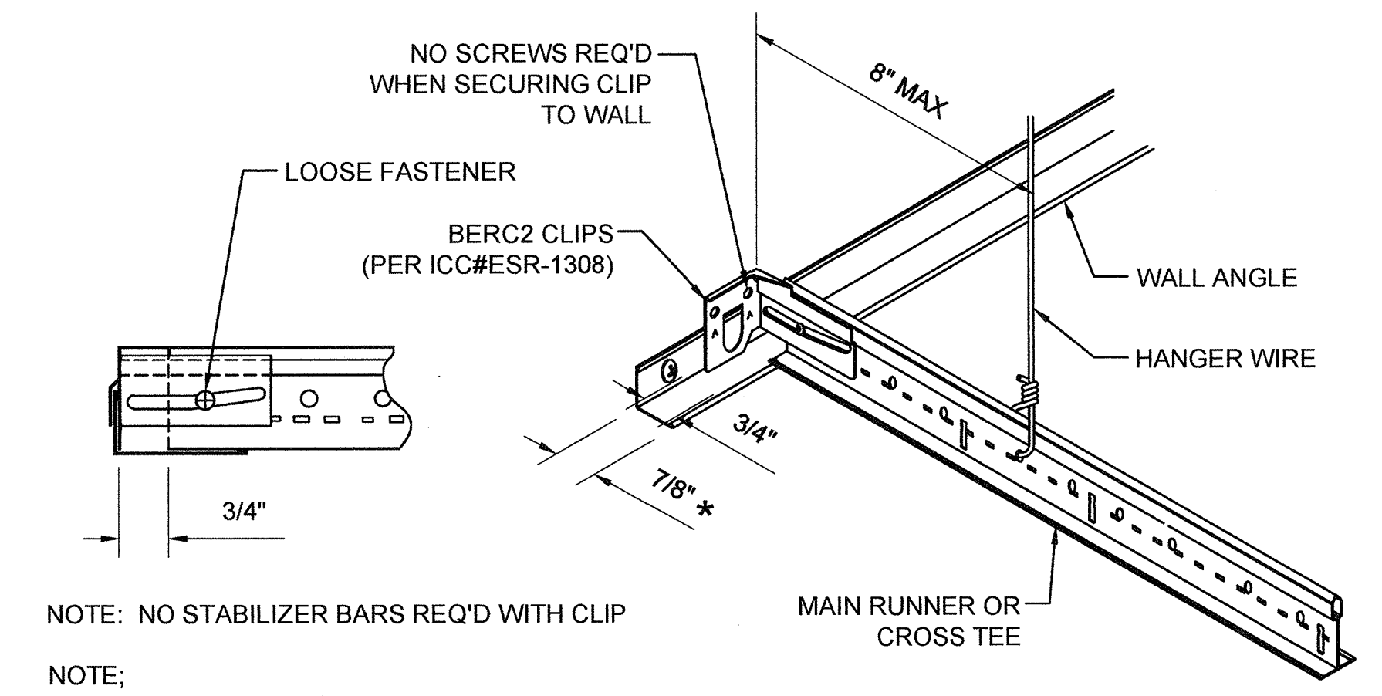
FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13


ROOF BEAM/HEADER
8" MAX OR
1/4 LENGTH OF END RUNNER WHICHEVER IS LESS
12GA HANGER WIRE AT THE END ON EACH RUNNER
TOP PLATE
INSULATION PER PLAN
FASTENER
FIRE BLOCKING AT CEILING LEVEL (IF REQ'D). SEE NOTE ON REFLECTED CEILING PLANS
EXTERIOR FINISH
MAIN RUNNER OR CROSS TEE
(SEE DETAIL 18/-) 7/8" WALL ANGLE WITH 1/8" DIA POP RIVET TO EACH T-BAR.
INTERIOR FINISH W/ UNDERLAYMENT

FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8



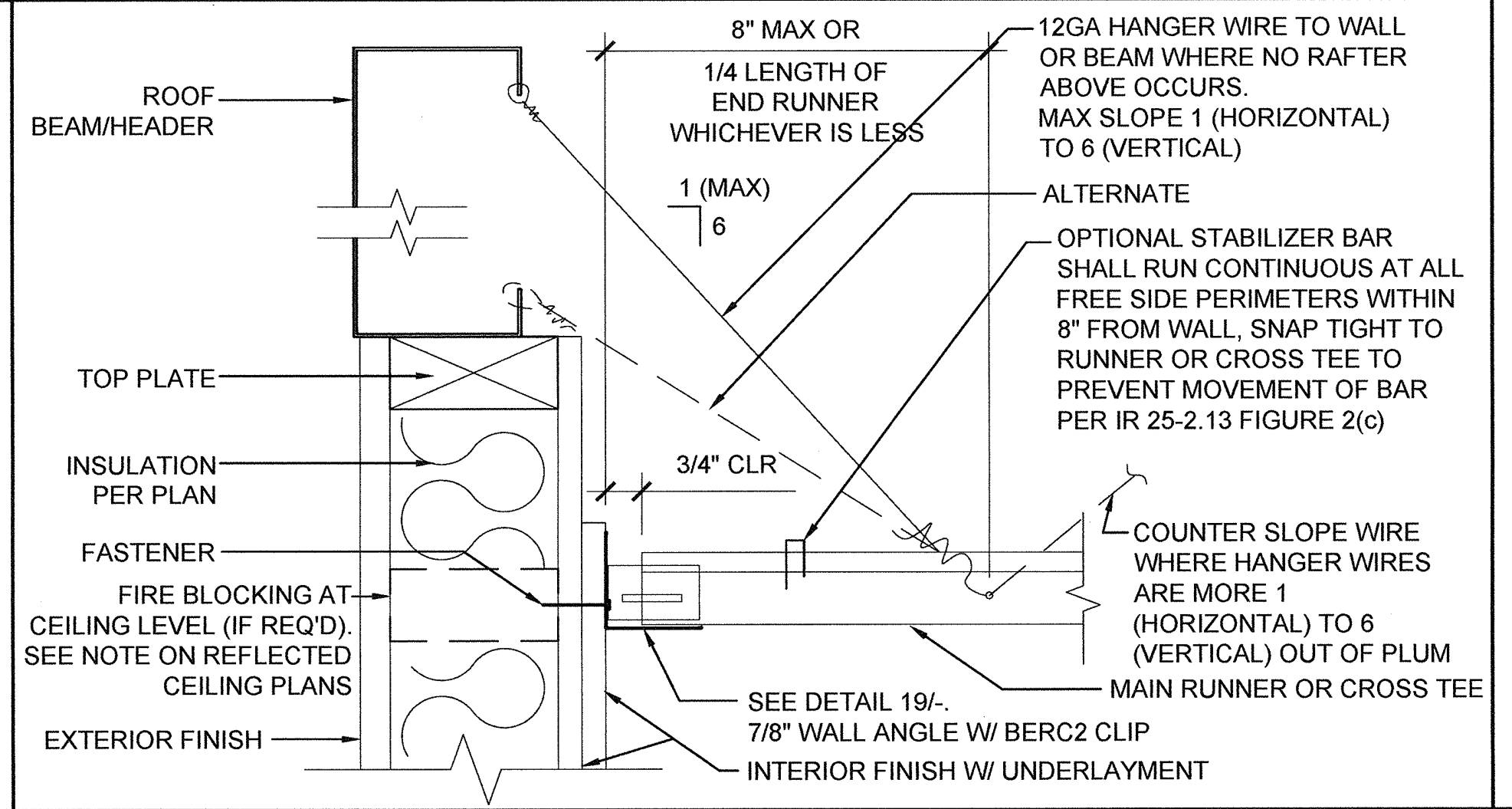
SEISMIC SPLAY - 4 WAY SCALE : NTS 3



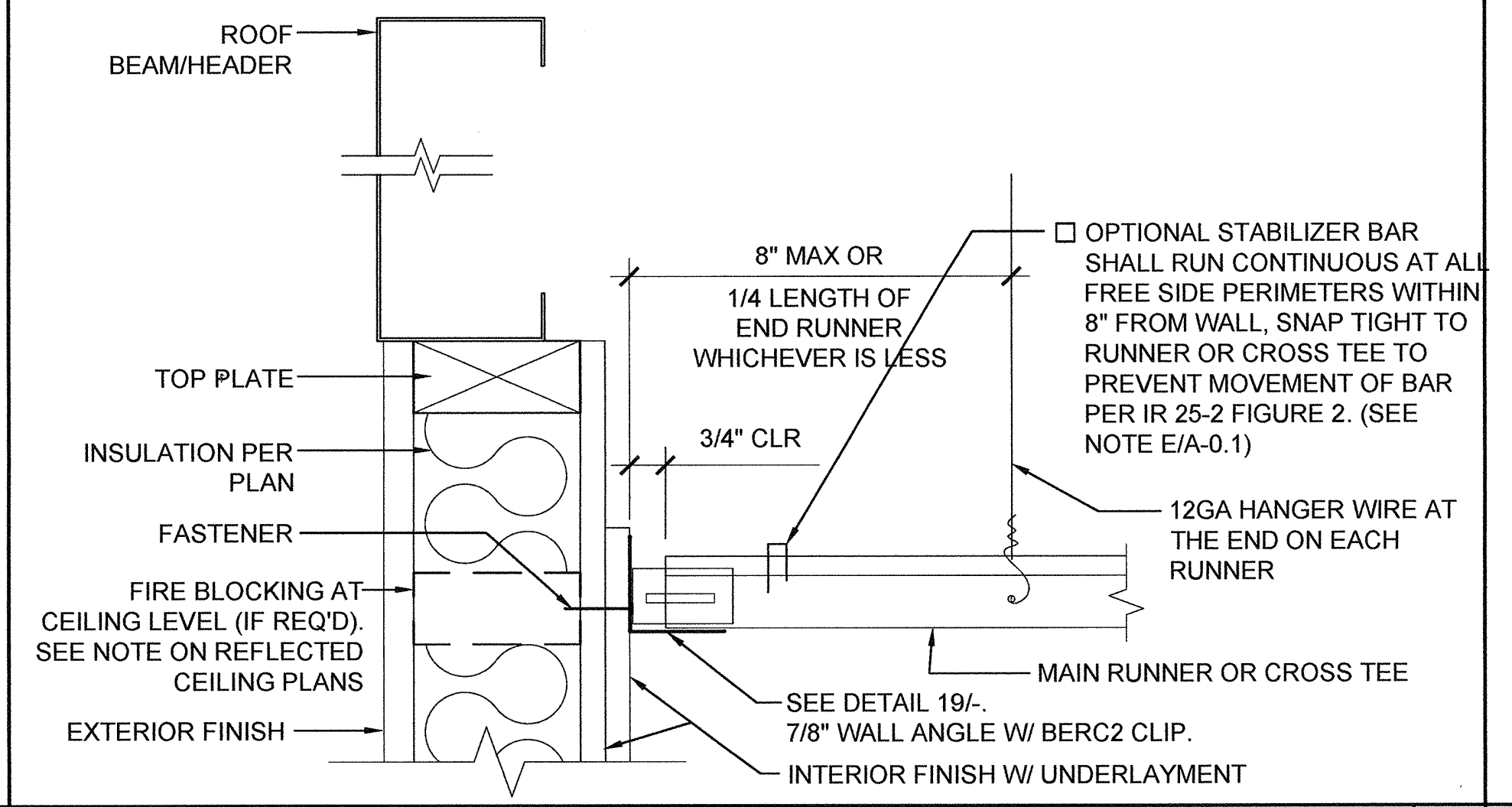
NOTE: NO STABILIZER BARS REQ'D WITH CLIP

NOTE;
* PROVIDE 2" WALL ANGLE IF BREC2 CLIP IS NOT USED

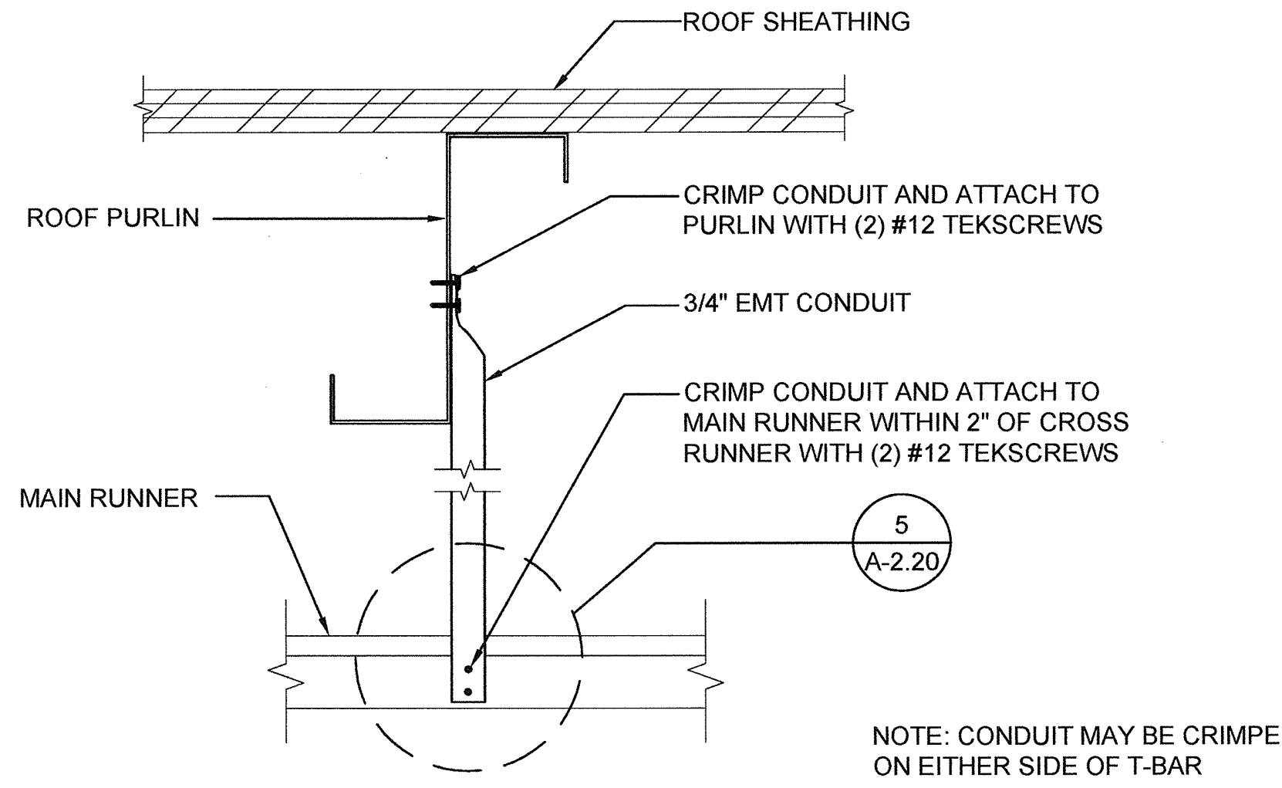
FREE SIDE SCALE : NTS 19


ROOF BEAM/HEADER
8" MAX OR
1/4 LENGTH OF END RUNNER WHICHEVER IS LESS
12GA HANGER WIRE TO WALL OR BEAM WHERE NO RAFTER ABOVE OCCURS. MAX SLOPE 1 (HORIZONTAL) TO 6 (VERTICAL)
1 (MAX)
6
ALTERNATE
OPTIONAL STABILIZER BAR SHALL RUN CONTINUOUS AT ALL FREE SIDE PERIMETERS WITHIN 8" FROM WALL, SNAP TIGHT TO RUNNER OR CROSS TEE TO PREVENT MOVEMENT OF BAR PER IR 25-2.13 FIGURE 2(c)
TOP PLATE
3/4" CLR
INSULATION PER PLAN
FASTENER
FIRE BLOCKING AT CEILING LEVEL (IF REQ'D). SEE NOTE ON REFLECTED CEILING PLANS
EXTERIOR FINISH
COUNTER SLOPE WIRE WHERE HANGER WIRES ARE MORE 1 (HORIZONTAL) TO 6 (VERTICAL) OUT OF PLUM
MAIN RUNNER OR CROSS TEE
SEE DETAIL 19/-. 7/8" WALL ANGLE W/ BERC2 CLIP
INTERIOR FINISH W/ UNDERLAYMENT

FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14


ROOF BEAM/HEADER
☐ OPTIONAL STABILIZER BAR SHALL RUN CONTINUOUS AT ALL FREE SIDE PERIMETERS WITHIN 8" FROM WALL, SNAP TIGHT TO RUNNER OR CROSS TEE TO PREVENT MOVEMENT OF BAR PER IR 25-2 FIGURE 2. (SEE NOTE E/A-0.1)
8" MAX OR
1/4 LENGTH OF END RUNNER WHICHEVER IS LESS
TOP PLATE
3/4" CLR
INSULATION PER PLAN
FASTENER
12GA HANGER WIRE AT THE END ON EACH RUNNER
FIRE BLOCKING AT CEILING LEVEL (IF REQ'D). SEE NOTE ON REFLECTED CEILING PLANS
EXTERIOR FINISH
MAIN RUNNER OR CROSS TEE
SEE DETAIL 19/-. 7/8" WALL ANGLE W/ BERC2 CLIP.
INTERIOR FINISH W/ UNDERLAYMENT

FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9

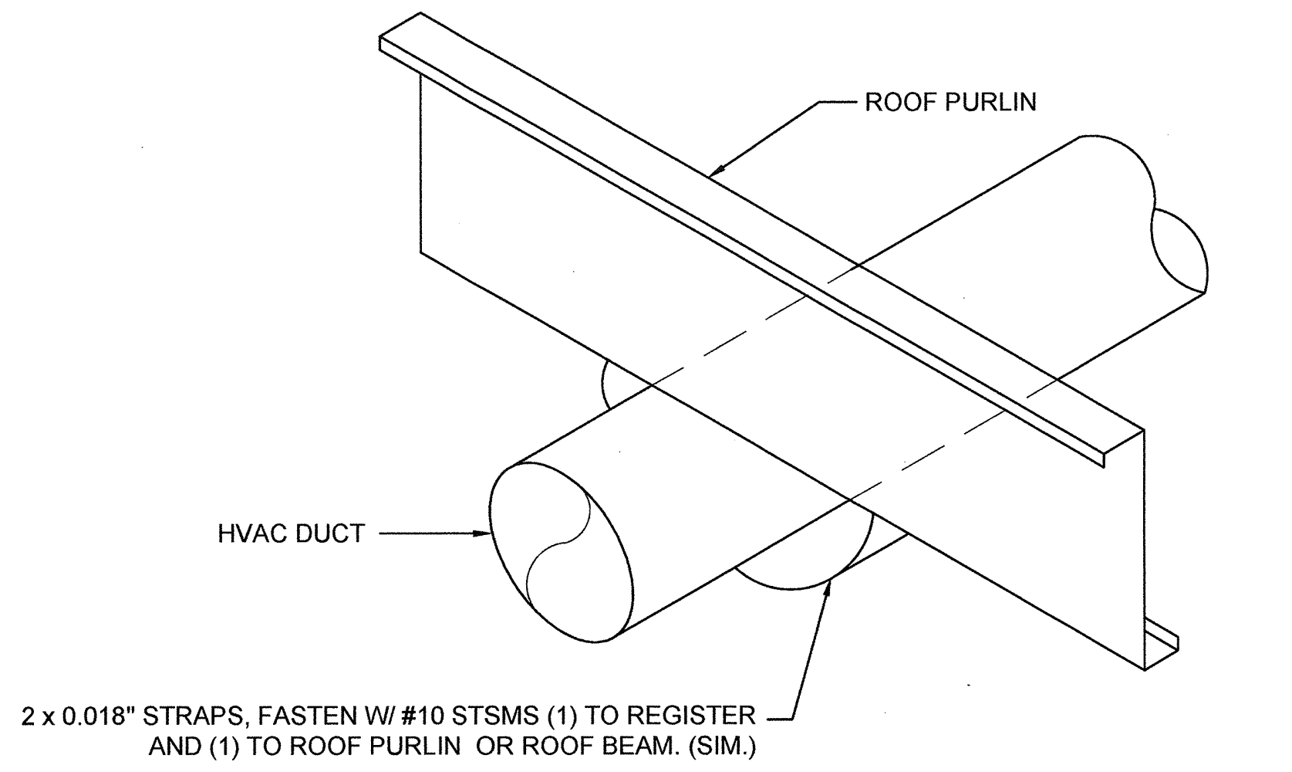

ROOF SHEATHING
ROOF PURLIN
CRIMP CONDUIT AND ATTACH TO PURLIN WITH (2) #12 TEKSCREWS
3/4" EMT CONDUIT
CRIMP CONDUIT AND ATTACH TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER WITH (2) #12 TEKSCREWS
MAIN RUNNER
5
A-2.20

NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

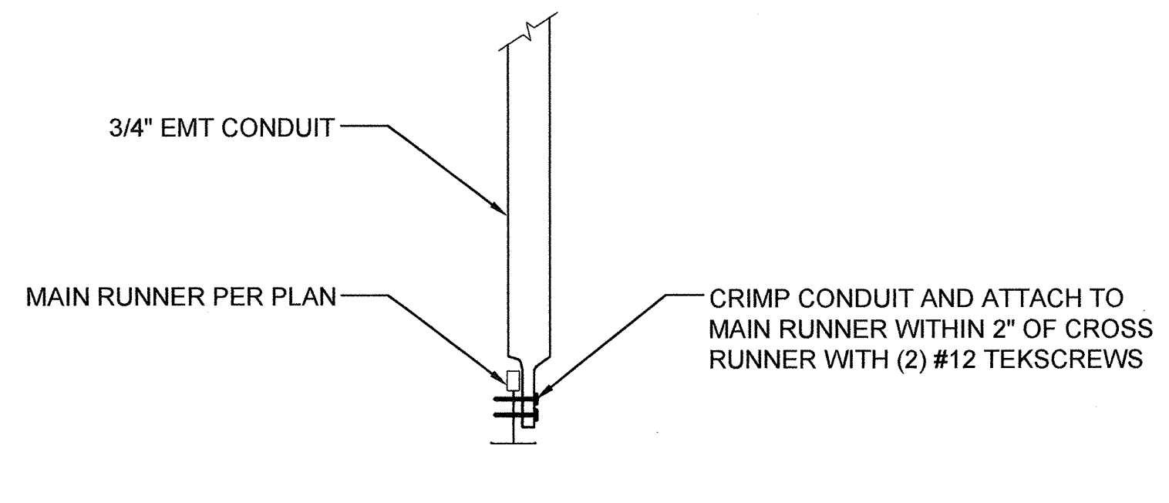
COMPRESSION STRUT SCALE : 3"=1'-0" 4

NOT USED 20

NOT USED 15


ROOF PURLIN
HVAC DUCT
2 x 0.018" STRAPS, FASTEN W/ #10 STSMS (1) TO REGISTER AND (1) TO ROOF PURLIN OR ROOF BEAM. (SIM.)

HVAC DUCTWORK MOUNTING SCALE: NTS 10


3/4" EMT CONDUIT
MAIN RUNNER PER PLAN
CRIMP CONDUIT AND ATTACH TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER WITH (2) #12 TEKSCREWS

NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

COMPRESSION STRUT SCALE : 3"=1'-0" 5

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PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
CEILING DETAILS
T-GRID

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
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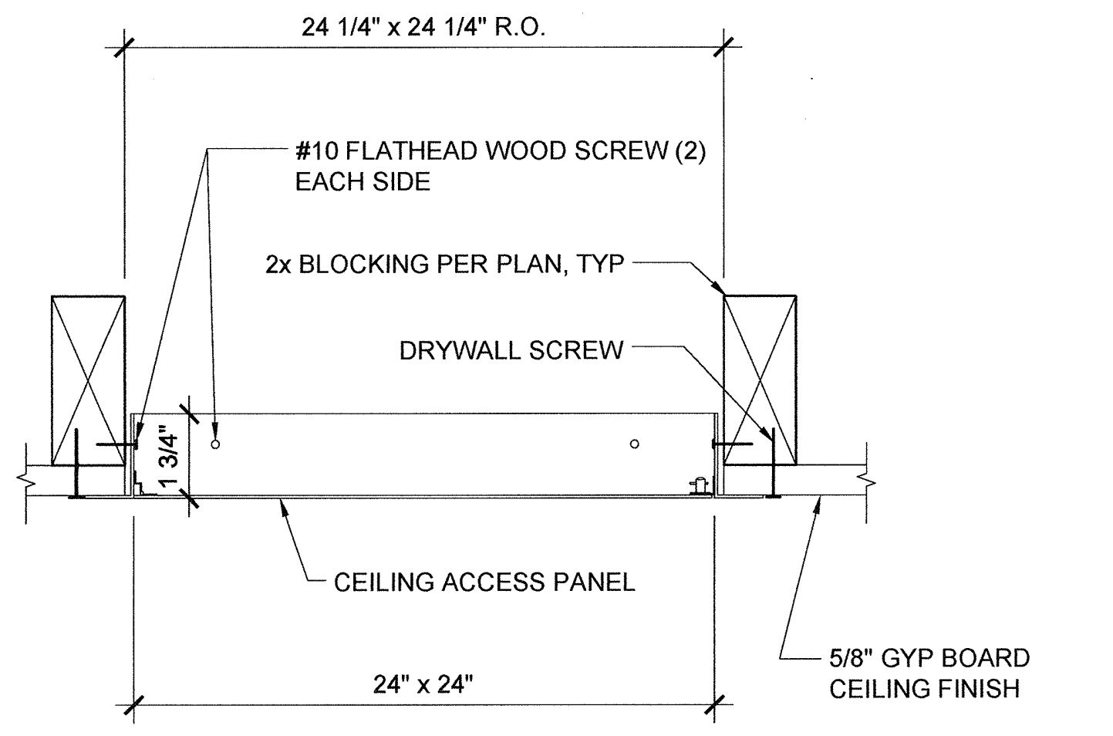
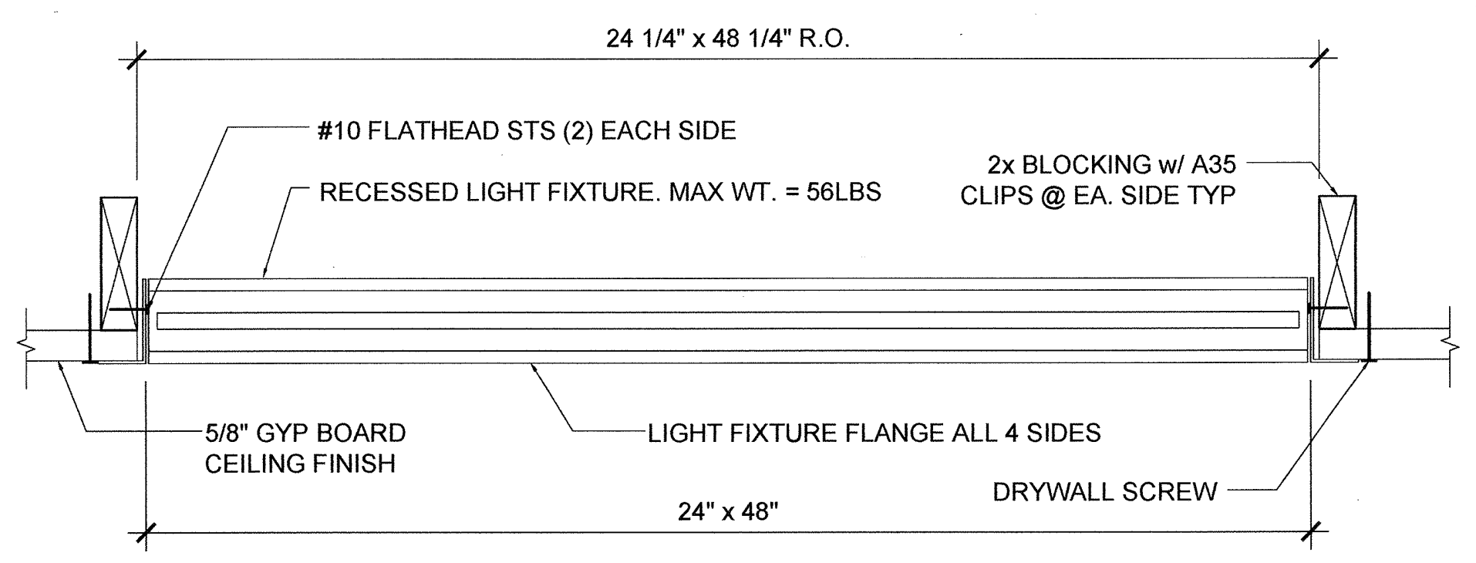
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

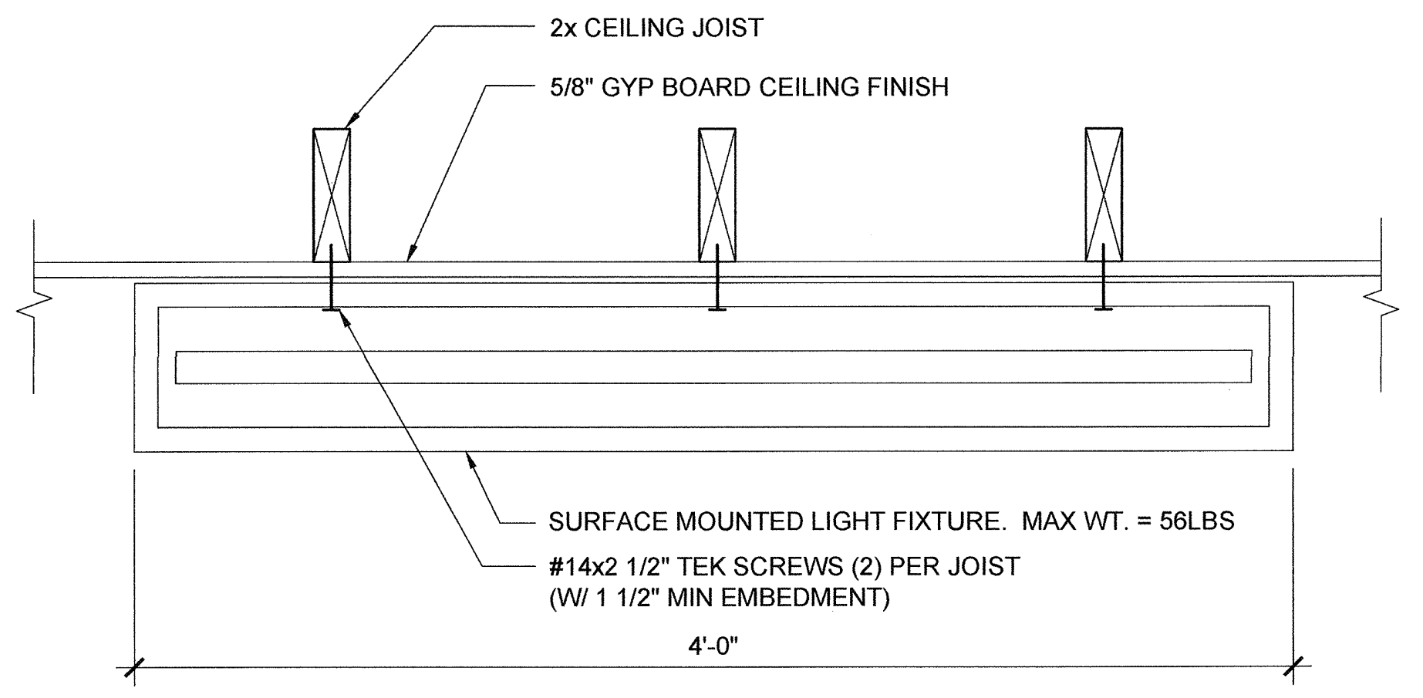
SHEET NUMBER
A-2.20-M1


24 1/4" x 24 1/4" R.O.
#10 FLATHEAD WOOD SCREW (2) EACH SIDE
2x BLOCKING PER PLAN, TYP
DRYWALL SCREW
1 3/4"
CEILING ACCESS PANEL
5/8" GYP BOARD CEILING FINISH
24" x 24"
WOOD

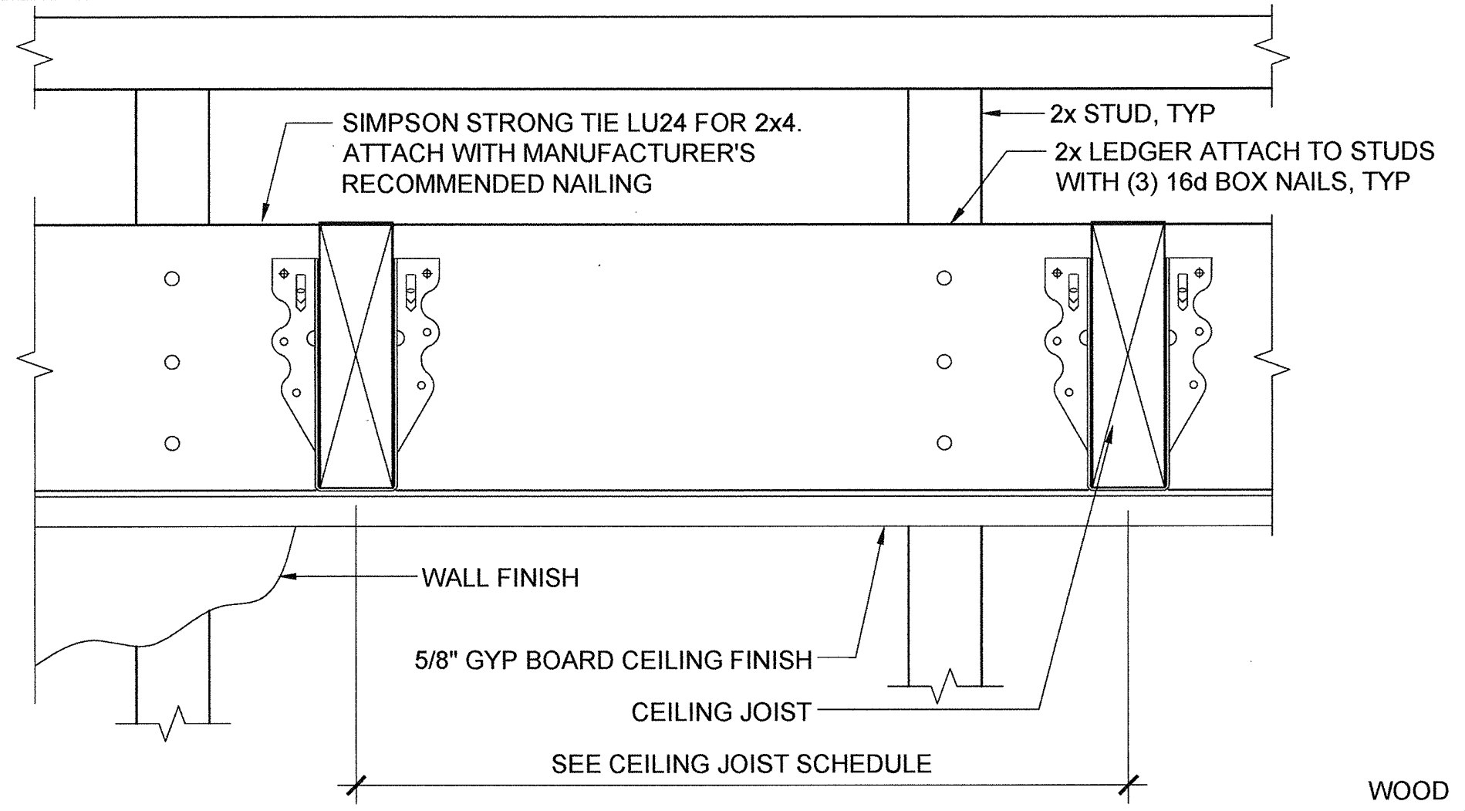
CEILING ACCESS PANEL SCALE : 3" = 1'-0" 1


24 1/4" x 48 1/4" R.O.
#10 FLATHEAD STS (2) EACH SIDE
RECESSED LIGHT FIXTURE. MAX WT. = 56LBS
2x BLOCKING w/ A35 CLIPS @ EA. SIDE TYP
5/8" GYP BOARD CEILING FINISH
LIGHT FIXTURE FLANGE ALL 4 SIDES
DRYWALL SCREW
24" x 48"
WOOD

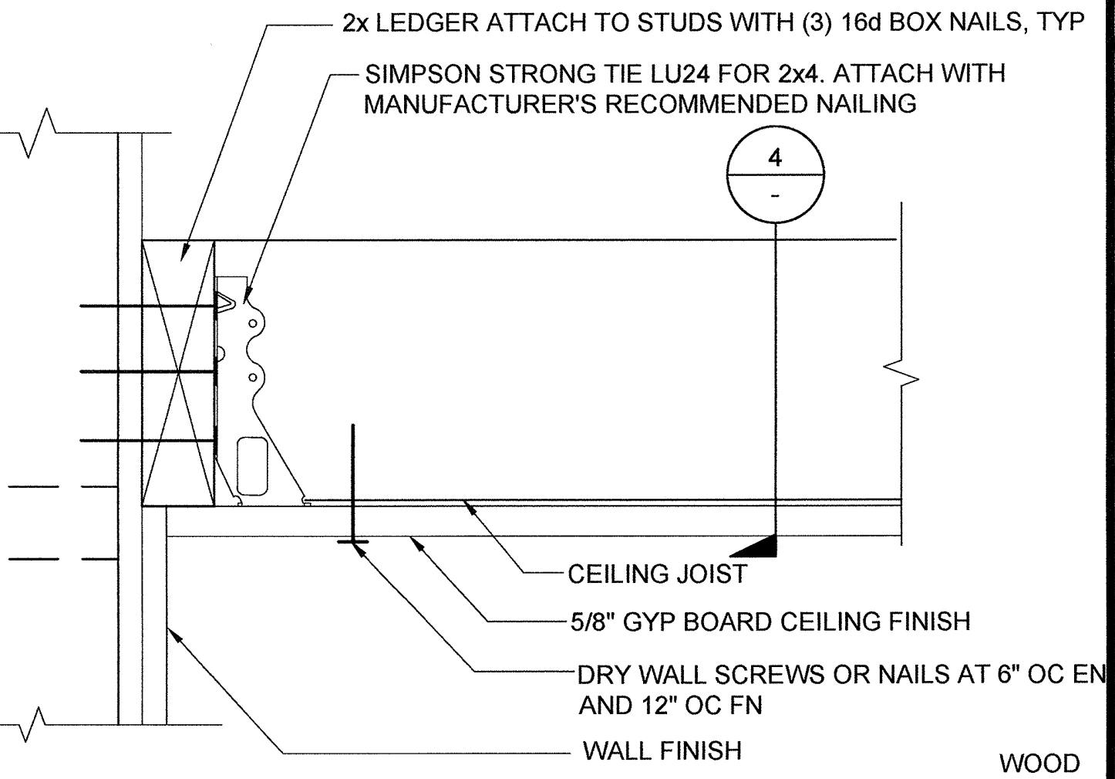
RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" 2


2x CEILING JOIST
5/8" GYP BOARD CEILING FINISH
SURFACE MOUNTED LIGHT FIXTURE. MAX WT. = 56LBS
#14x2 1/2" TEK SCREWS (2) PER JOIST (W/ 1 1/2" MIN EMBEDMENT)
4'-0"
WOOD

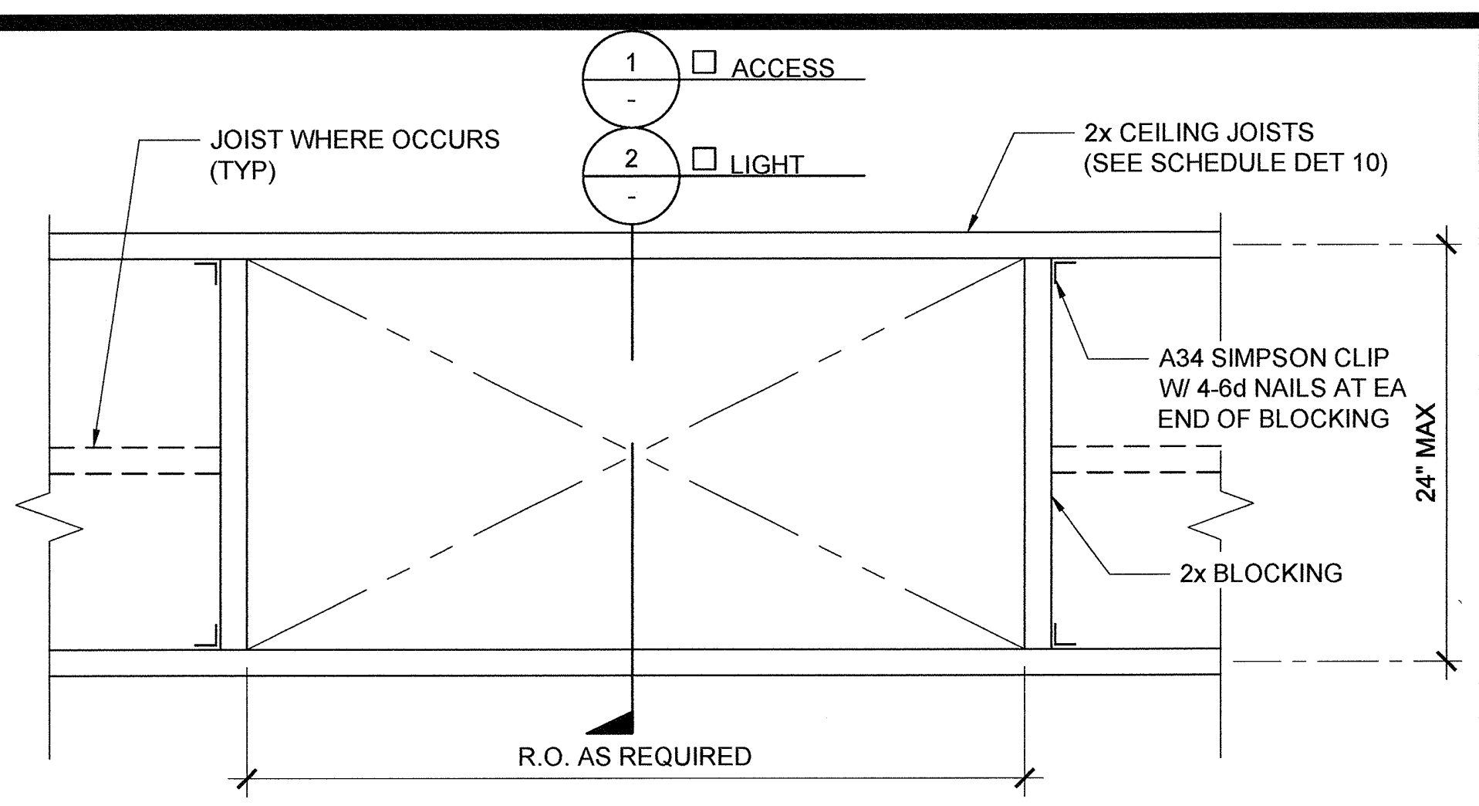
SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" 3


SIMPSON STRONG TIE LU24 FOR 2x4. ATTACH WITH MANUFACTURER'S RECOMMENDED NAILING
2x STUD, TYP
2x LEDGER ATTACH TO STUDS WITH (3) 16d BOX NAILS, TYP
WALL FINISH
5/8" GYP BOARD CEILING FINISH
CEILING JOIST
SEE CEILING JOIST SCHEDULE
WOOD

HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 4

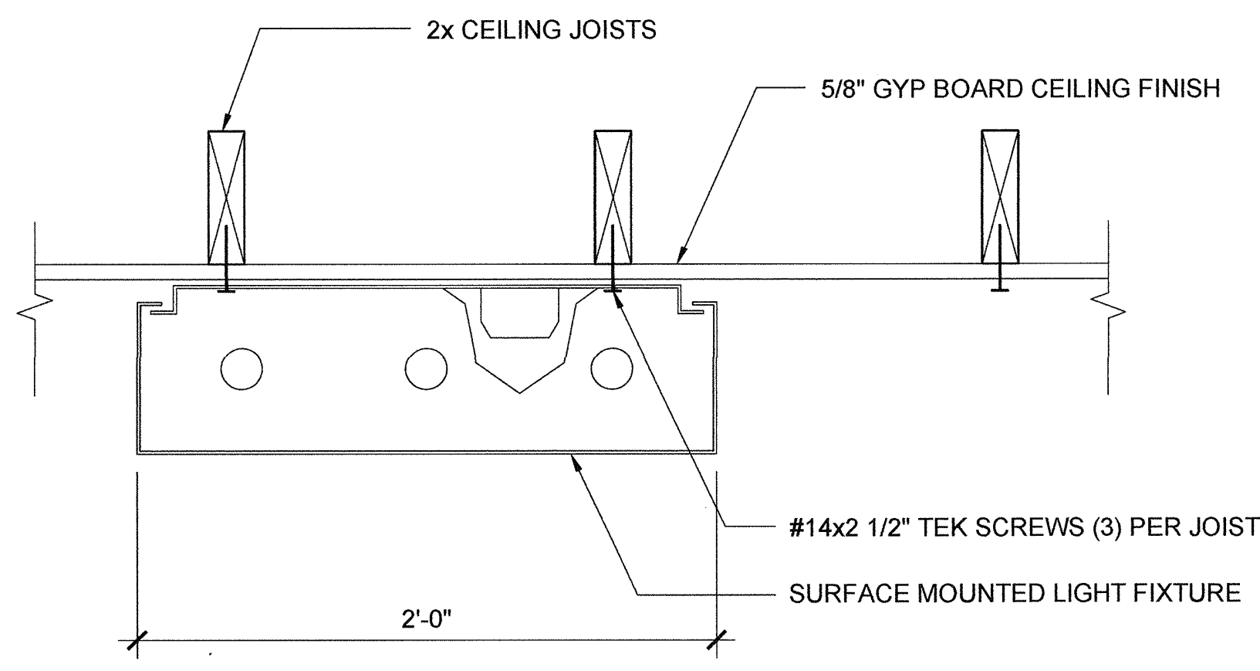

2x LEDGER ATTACH TO STUDS WITH (3) 16d BOX NAILS, TYP
SIMPSON STRONG TIE LU24 FOR 2x4. ATTACH WITH MANUFACTURER'S RECOMMENDED NAILING
4
-
WALL
FIRE BLOCKING AT CEILING LEVEL. SEE NOTE ON SHEET A-0.1
CEILING JOIST
5/8" GYP BOARD CEILING FINISH
DRY WALL SCREWS OR NAILS AT 6" OC EN AND 12" OC FN
WALL FINISH
WOOD

HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 5


1
-
☐ ACCESS
2
-
☐ LIGHT
JOIST WHERE OCCURS (TYP)
2x CEILING JOISTS (SEE SCHEDULE DET 10)
A34 SIMPSON CLIP W/ 4-6d NAILS AT EA END OF BLOCKING
24" MAX
2x BLOCKING
R.O. AS REQUIRED
WOOD

RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" 6

NOT USED 7


2x CEILING JOISTS
5/8" GYP BOARD CEILING FINISH
#14x2 1/2" TEK SCREWS (3) PER JOIST
SURFACE MOUNTED LIGHT FIXTURE
2'-0"
WOOD

SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" 8

NOT USED 9

2X4 JOIST TABLE - MAX SPAN

SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"

WOOD CEILING JOIST SCHEDULE SCALE : NTS 10

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

NOT USED 15

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

CEILING DETAILS
HARD LID

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS GJ SS
Date FEB 0 3 2017

REVISIONS
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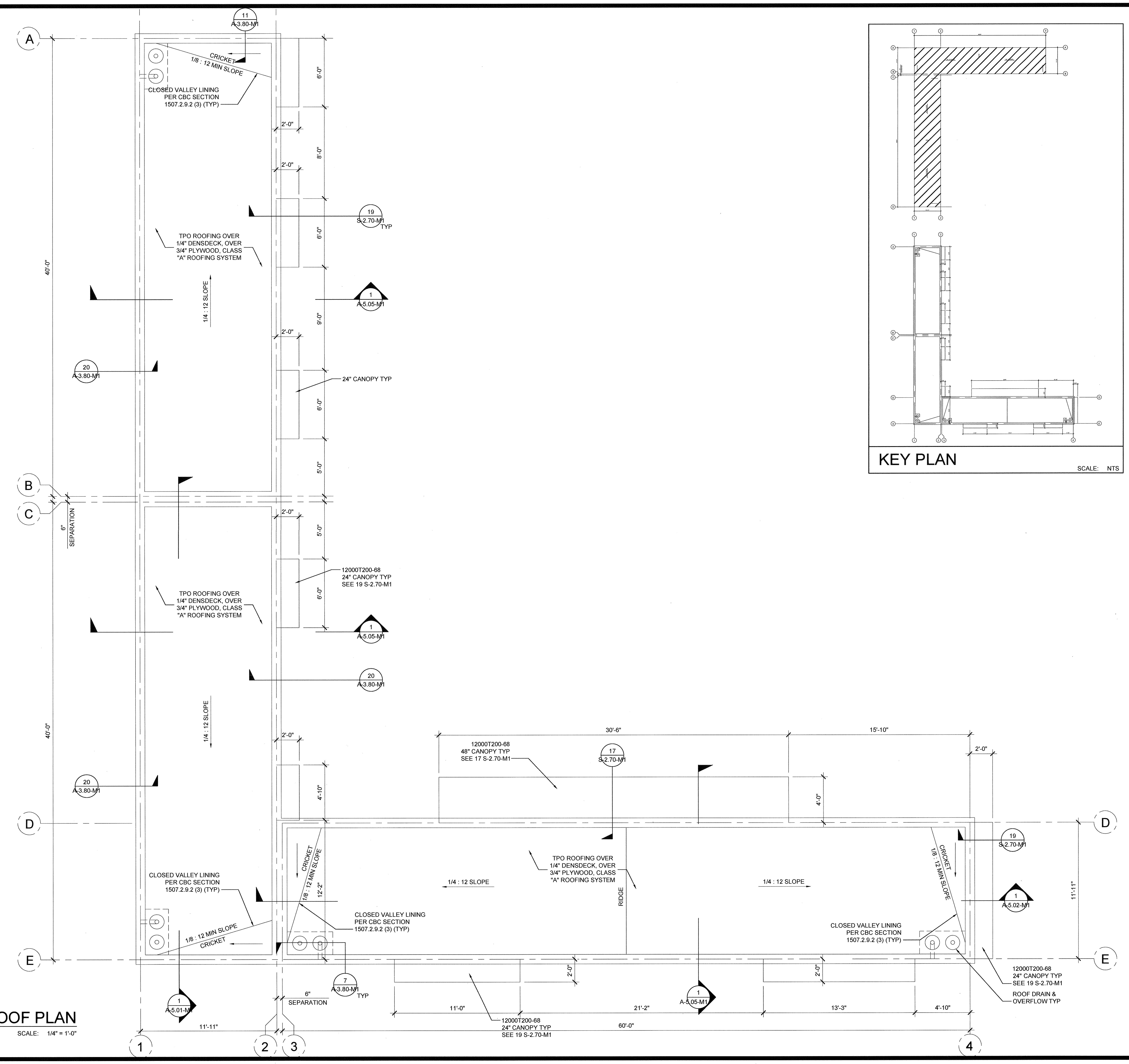
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER
A-2.21-M1



ROOF PLAN

SCALE: 1/4" = 1'-0"

KEY PLAN

SCALE: NTS

NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE 42" MIN. GUARDRAIL OR PARAPET.
   CBC 2013 SECTIONS 1013.6 & 1013.7.

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF PLAN
MONO SLOPE
W/ PARAPET

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

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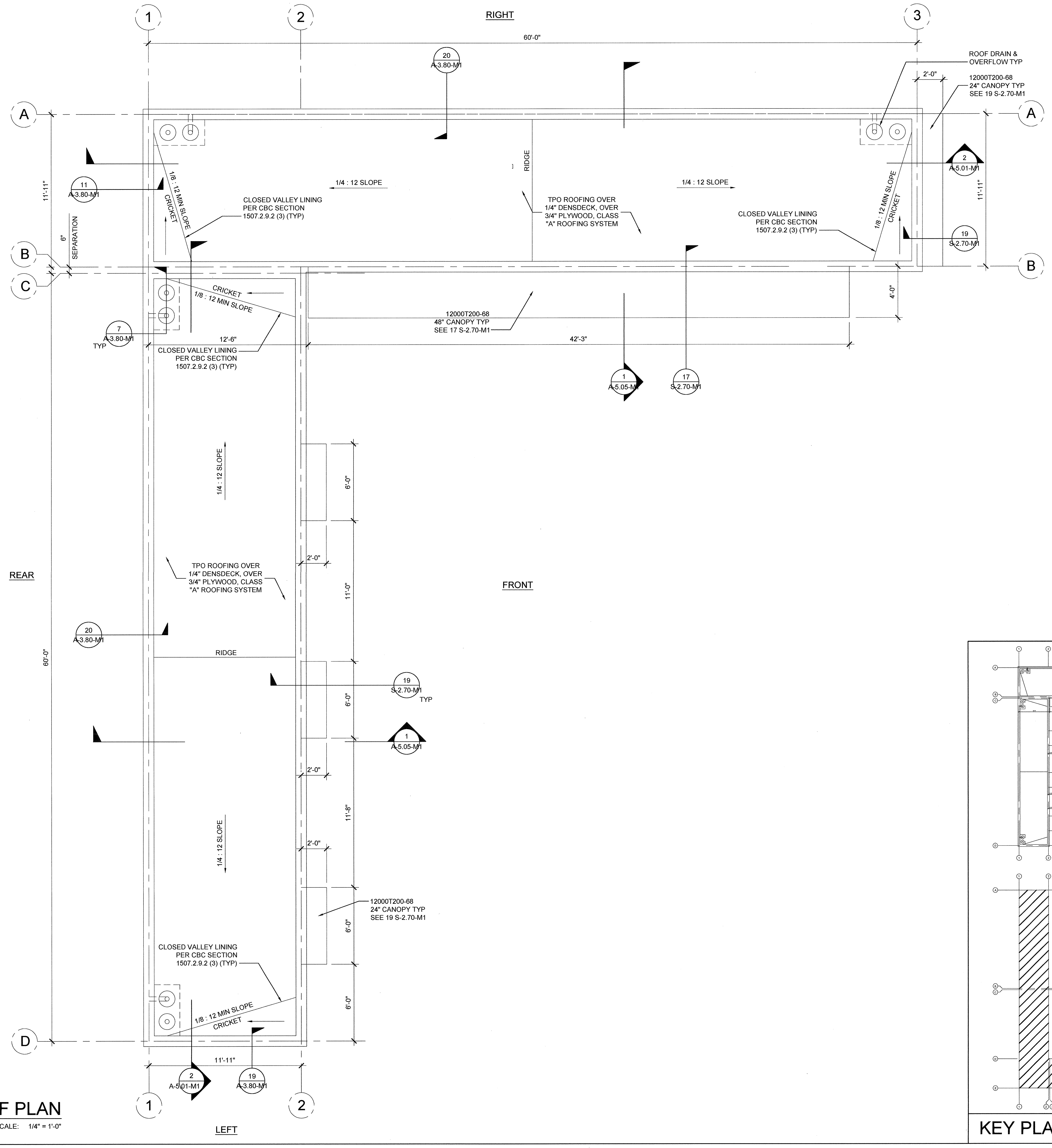
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

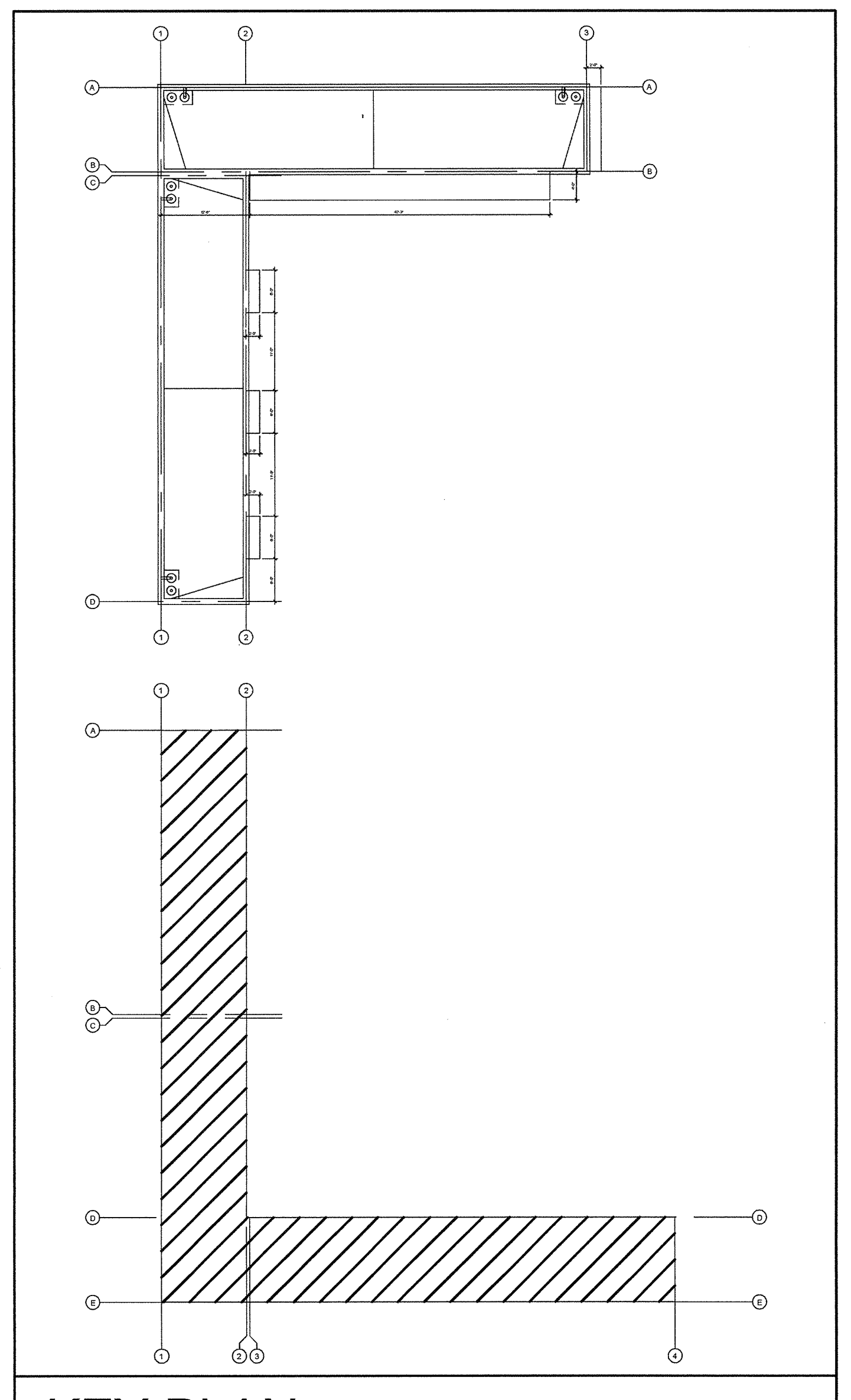
SHEET NUMBER

A-3.01-M1



ROOF PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

SCALE: NTS

ROOF PLAN

SCALE: 1/4" = 1' - 0" 1

NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE 42" MIN. GUARDRAIL OR PARAPET.
   CBC 2013 SECTIONS 1013.6 & 1013.7.

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF PLAN
MONO SLOPE
W/ PARAPET

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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Date FEB 0 3 2017

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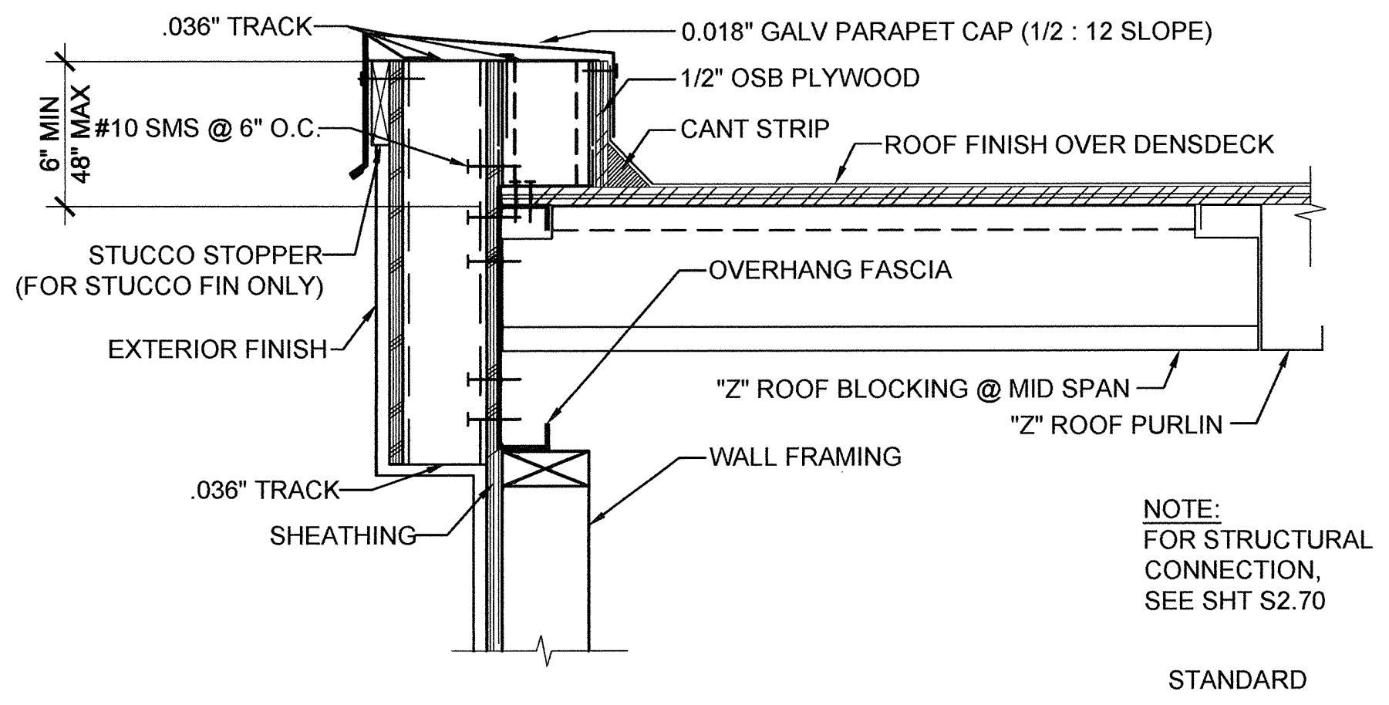
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

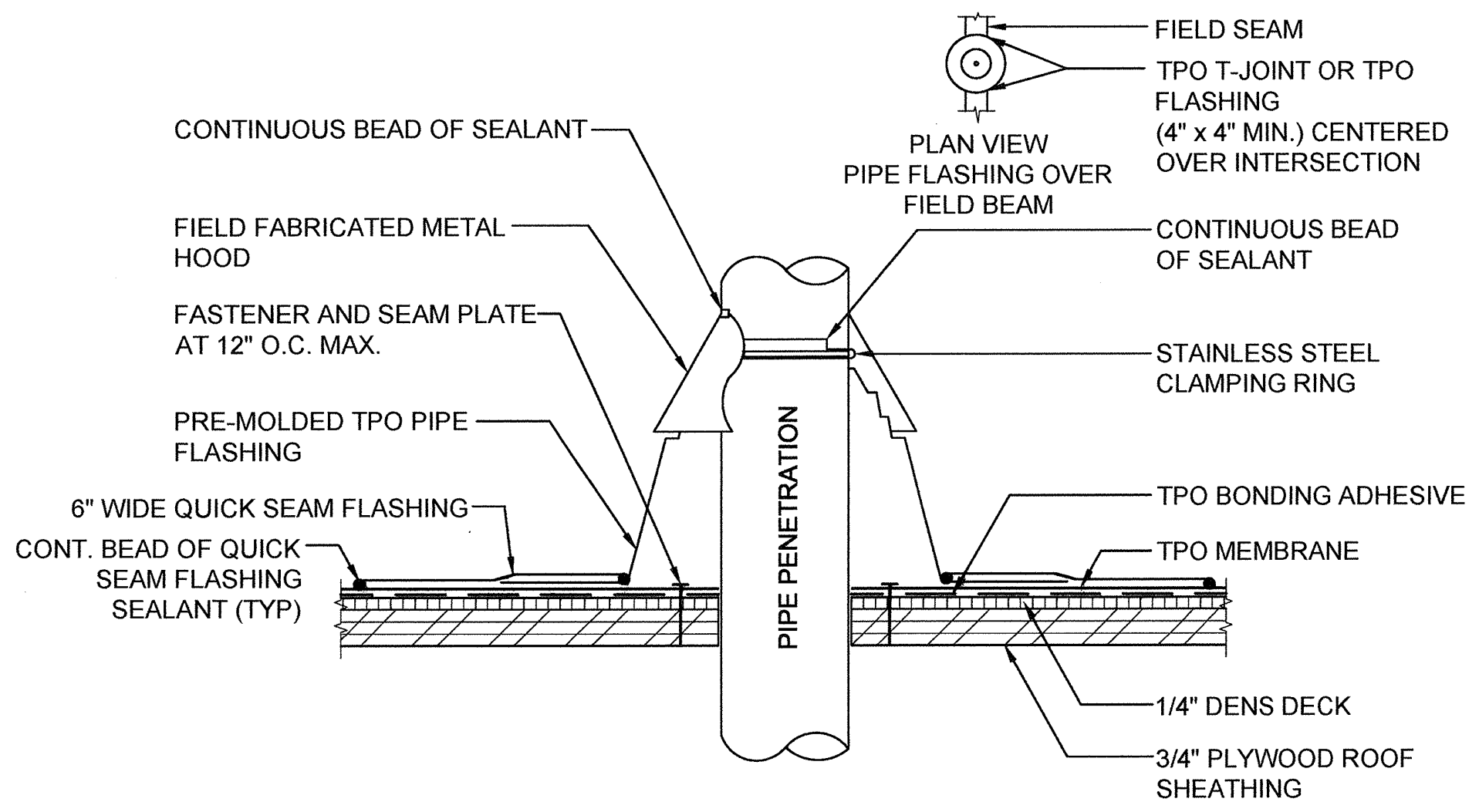
SHEET NUMBER

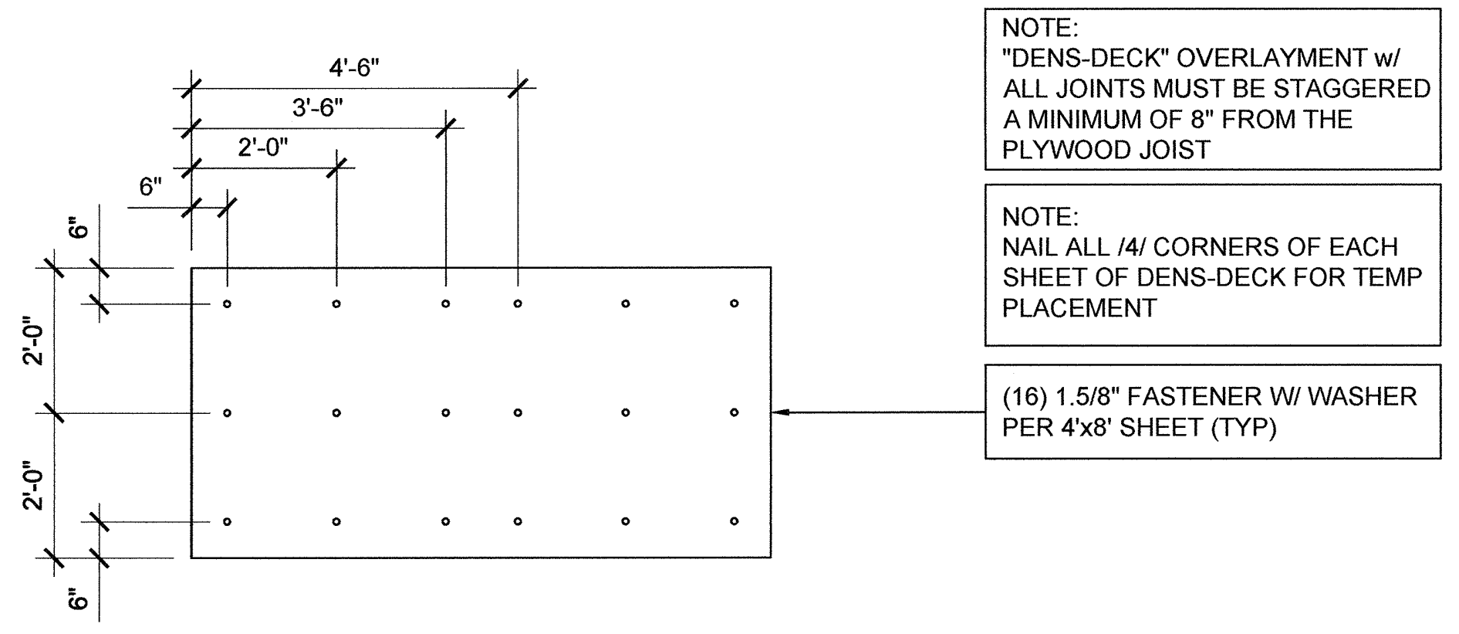
A-3.02-M1



NOTE:
FOR STRUCTURAL
CONNECTION,
SEE SHT S2.70

STANDARD


FIELD SEAM
TPO T-JOINT OR TPO FLASHING (4" x 4" MIN.) CENTERED OVER INTERSECTION
PLAN VIEW
PIPE FLASHING OVER
FIELD BEAM
CONTINUOUS BEAD OF SEALANT
FIELD FABRICATED METAL HOOD
CONTINUOUS BEAD OF SEALANT
FASTENER AND SEAM PLATE AT 12" O.C. MAX.
STAINLESS STEEL CLAMPING RING
PRE-MOLDED TPO PIPE FLASHING
PIPE PENETRATION
TPO BONDING ADHESIVE
6" WIDE QUICK SEAM FLASHING
TPO MEMBRANE
CONT. BEAD OF QUICK SEAM FLASHING SEALANT (TYP)
1/4" DENS DECK
3/4" PLYWOOD ROOF SHEATHING



NOTE:
"DENS-DECK" OVERLAYMENT w/ ALL JOINTS MUST BE STAGGERED A MINIMUM OF 8" FROM THE PLYWOOD JOIST

NOTE:
NAIL ALL /4/ CORNERS OF EACH SHEET OF DENS-DECK FOR TEMP PLACEMENT

(16) 1.5/8" FASTENER W/ WASHER PER 4'x8' SHEET (TYP)

18 FASTENERS PER BOARD

FMRC 1-90 WIND UPLIFT / 168 FASTENERS PER 4' x 8' BOARD

NOT USED 16

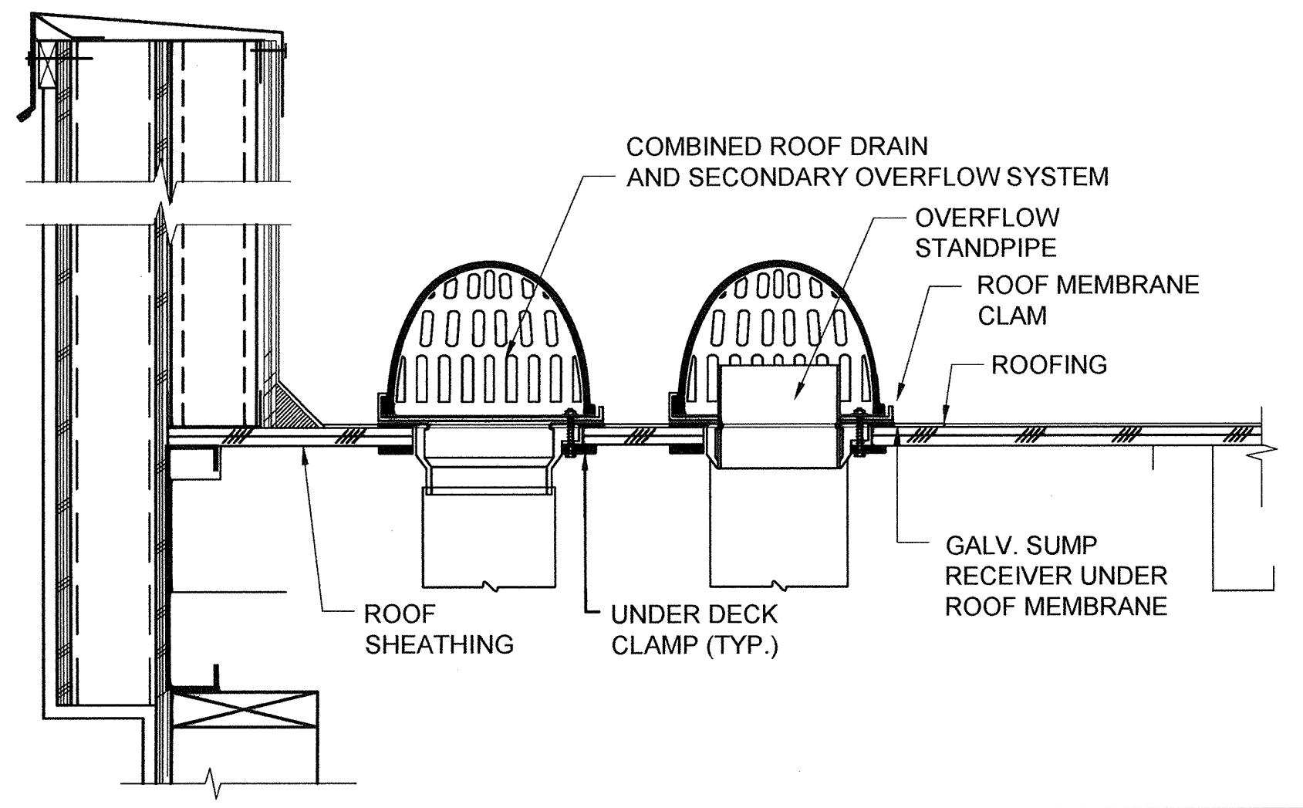
FRONT PARAPET SECTION (STEEL FRAME)

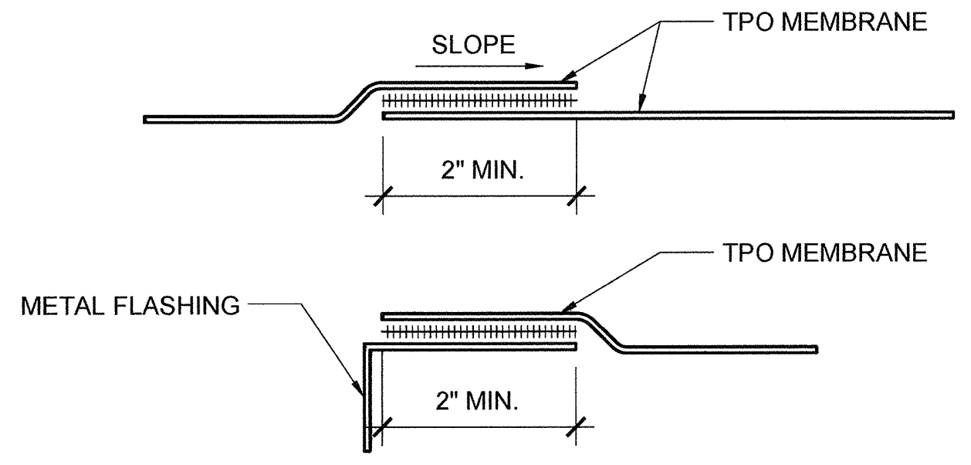
SCALE : 1 1/2" = 1'-0" 11

DETAIL AT PIPE FLASHING

SCALE: 3"=1'-0" 6

TYP 4x8 SHEET FASTENER LAYOUT 1


COMBINED ROOF DRAIN AND SECONDARY OVERFLOW SYSTEM
OVERFLOW STANDPIPE
ROOF MEMBRANE CLAM
ROOFING
ROOF SHEATHING
UNDER DECK CLAMP (TYP.)
GALV. SUMP RECEIVER UNDER ROOF MEMBRANE



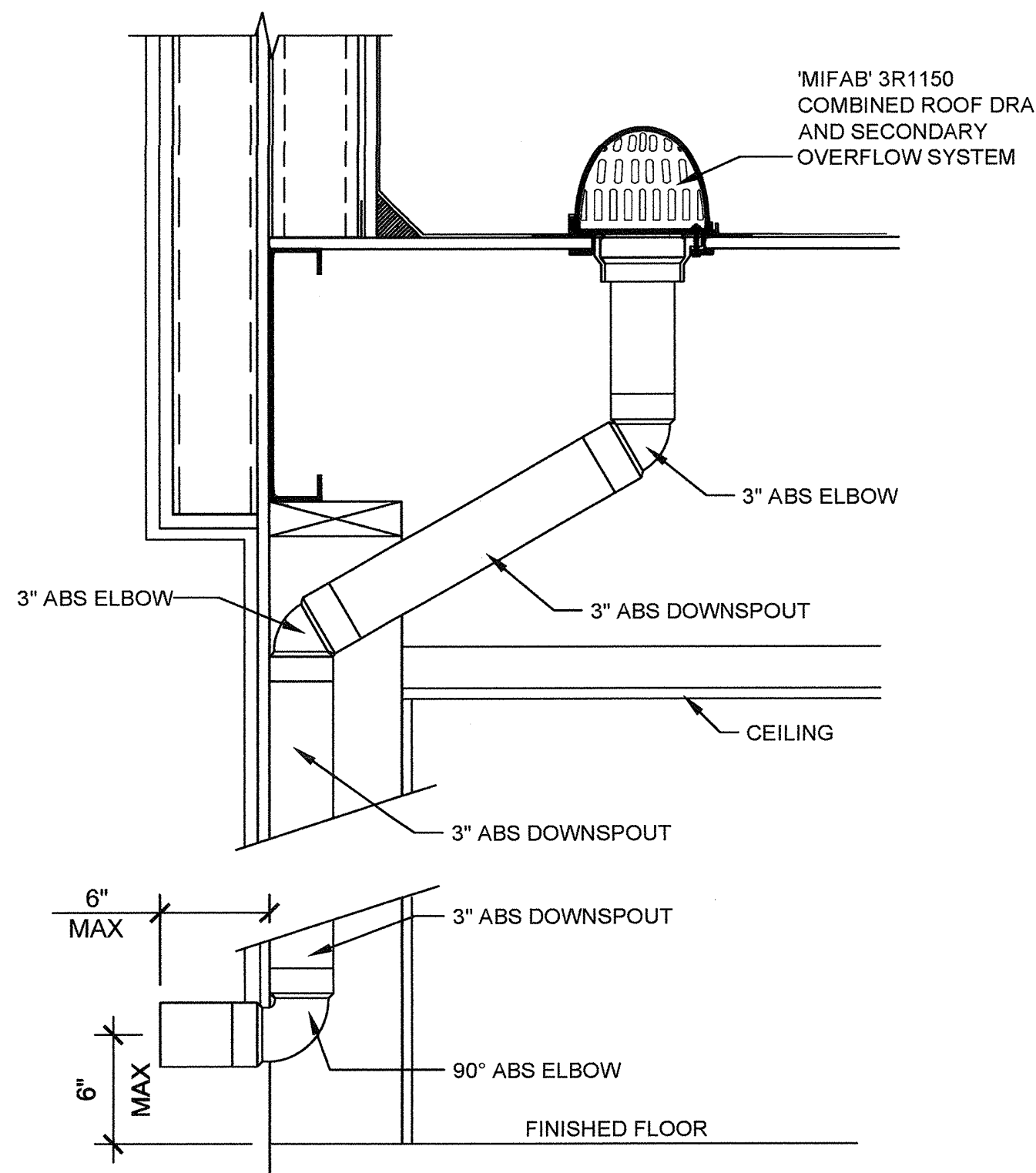
NOT USED 17

NOT USED 12

ROOF DRAIN DETAIL

SCALE : NTS 7

TPO LAP SPLICE 2



NOT USED 18

NOT USED 13

NOT USED 3

REF: A3.31, A3.32, A3.33, A3.34

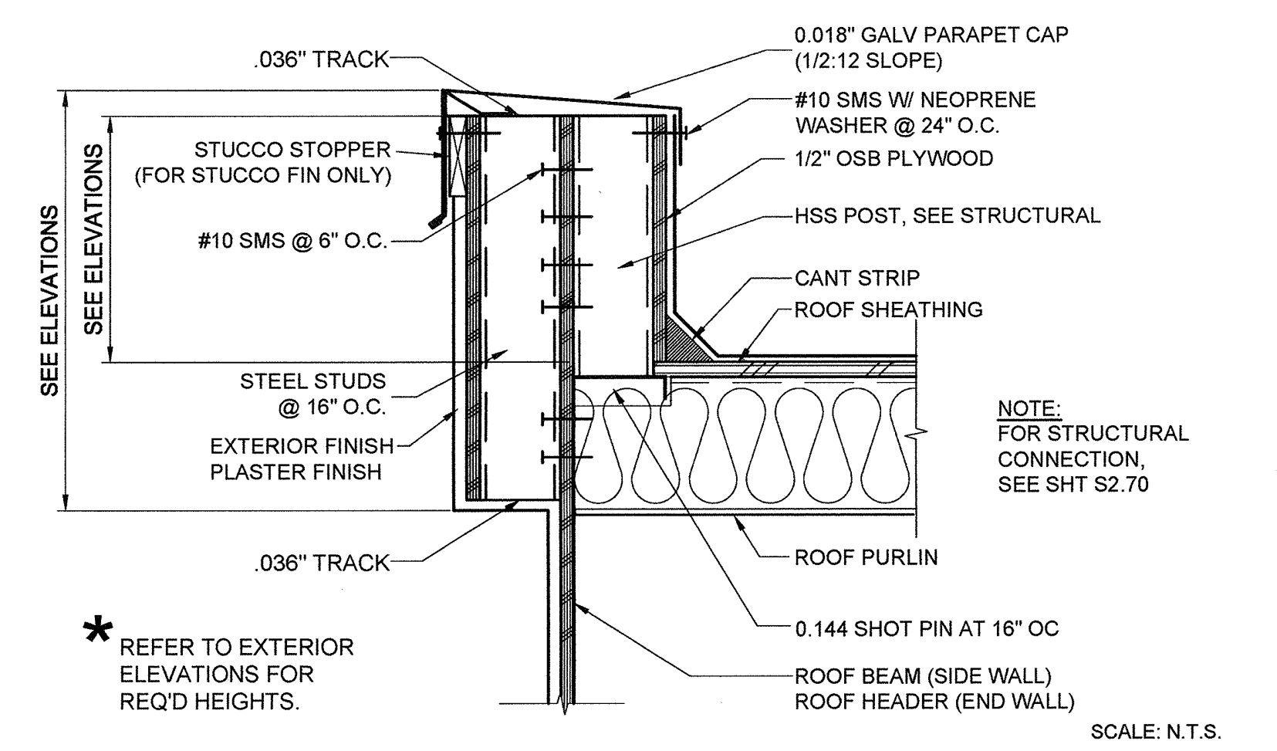
NOT USED 19

NOT USED 14

ROOF DRAIN DETAIL

SCALE : NTS 9

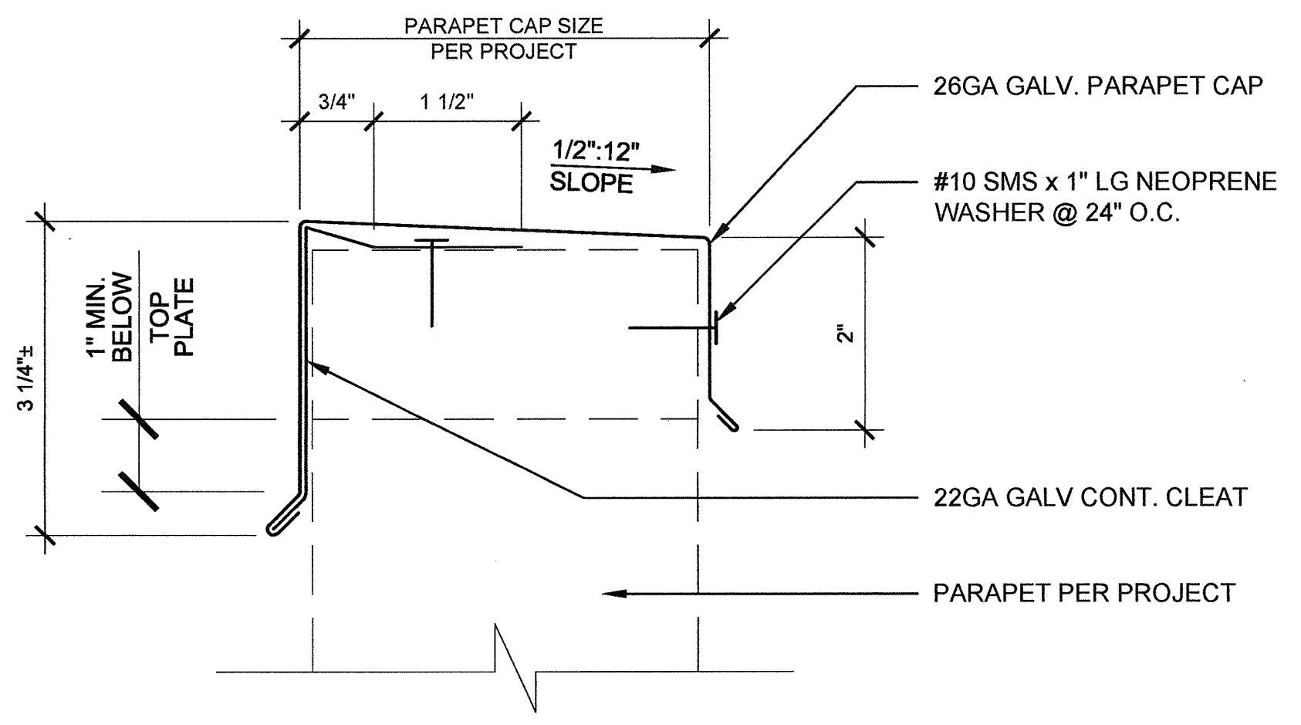
NOT USED 4

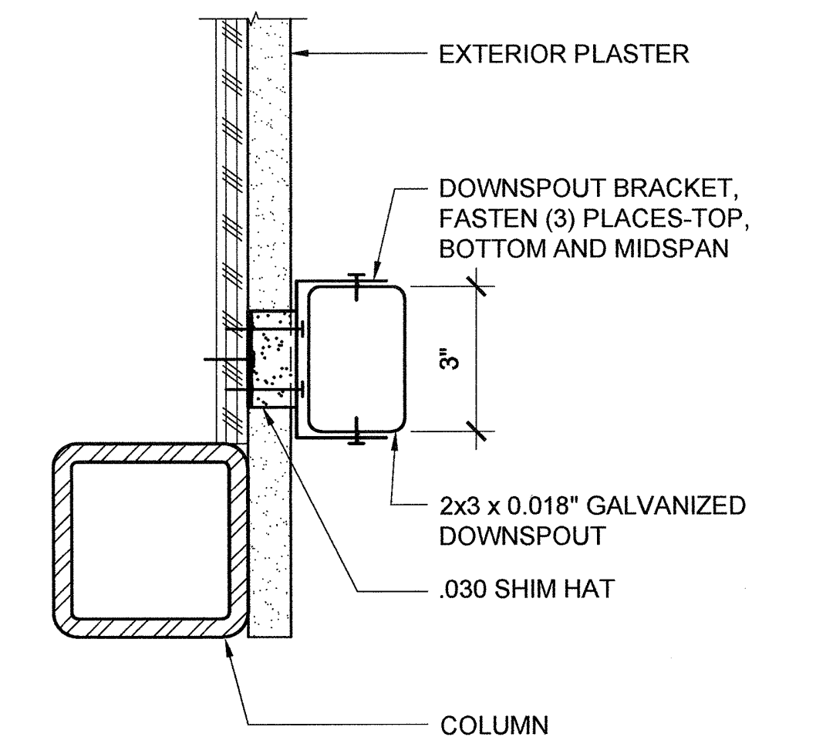


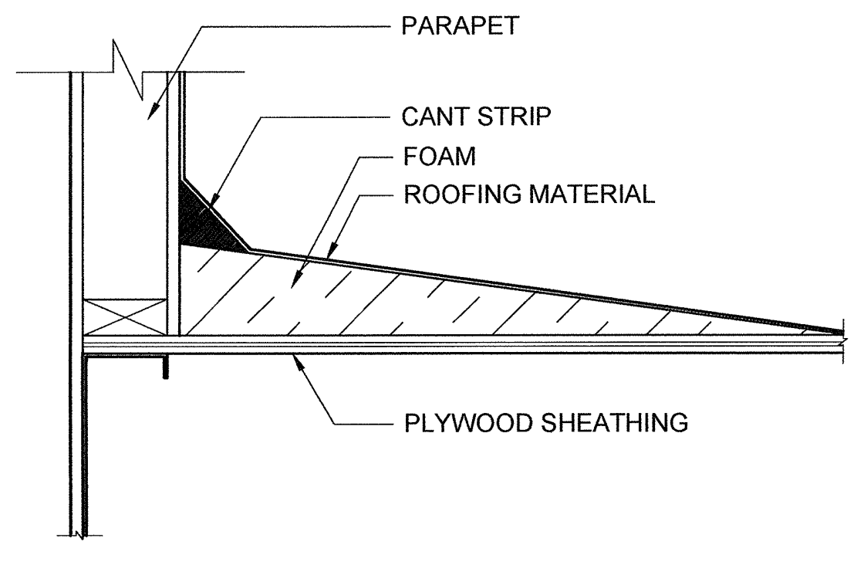
NOTE:
FOR STRUCTURAL
CONNECTION,
SEE SHT S2.70

* REFER TO EXTERIOR ELEVATIONS FOR REQ'D HEIGHTS.

SCALE: N.T.S.




EXTERIOR PLASTER
DOWNSPOUT BRACKET, FASTEN (3) PLACES-TOP, BOTTOM AND MIDSPAN
3"
2x3 x 0.018" GALVANIZED DOWNSPOUT
.030 SHIM HAT
COLUMN



SIDEWALL PARAPET SECTION (STEEL FRAMING) 20

PARAPET CAP DETAIL

SCALE : 1 1/2" = 1'-0" 15

NOT USED 10

SECTION AT CRICKET

SCALE : 1 1/2" = 1'-0" 5

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF DETAILS
PARAPET

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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A 03 117117
AC FLS SS
Date FEB 0 3 2017

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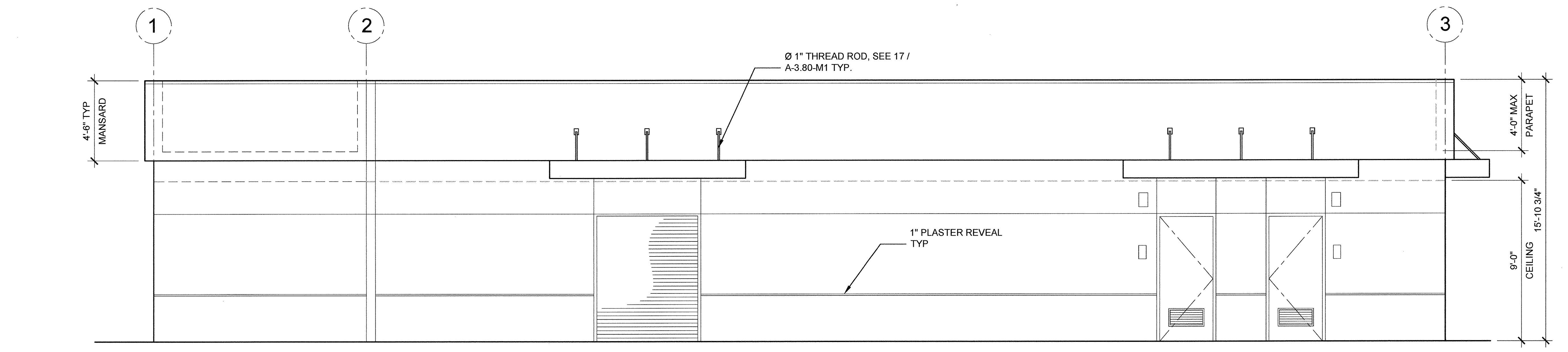
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

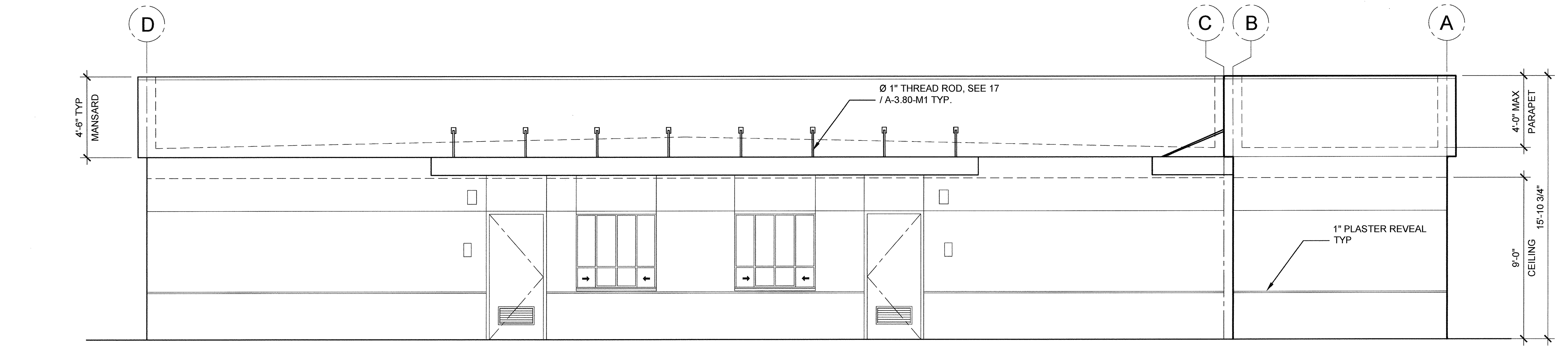
SHEET NUMBER

A-3.80-M1



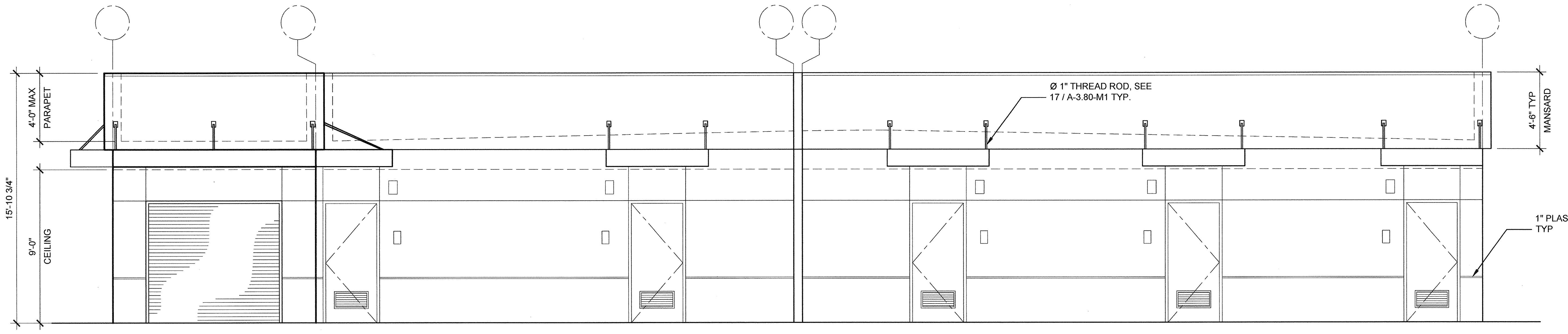
EXTERIOR ELEVATIONS - SOUTH

SCALE: 1/4" = 1' - 0" 1



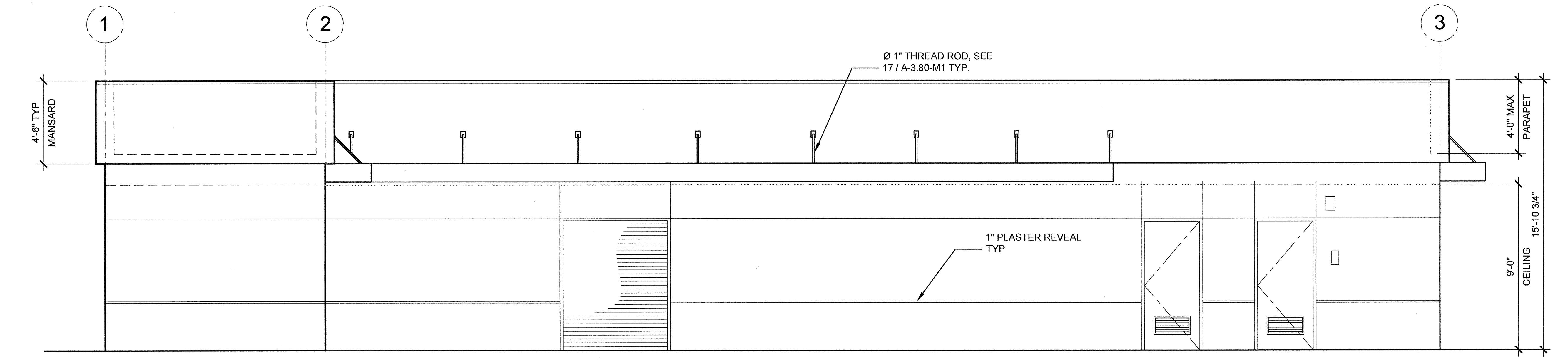
EXTERIOR ELEVATIONS - NORTH

SCALE: 1/4" = 1' - 0" 2



EXTERIOR ELEVATIONS - EAST

SCALE: 1/4" = 1' - 0" 3



EXTERIOR ELEVATIONS - WEST

SCALE: 1/4" = 1' - 0" 4

NOTES (EXTERIOR ELEVATION)

DETAIL SCHEDULE

EXTERIOR FINISH:	SHEET #:
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1

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SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

EXTERIOR ELEVATION
12' X 40' - MODEL A-1
MONO / DUAL SLOPE

JACK F. SHIVELY III
C-33467
REN.01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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Date FEB 0 3 2017

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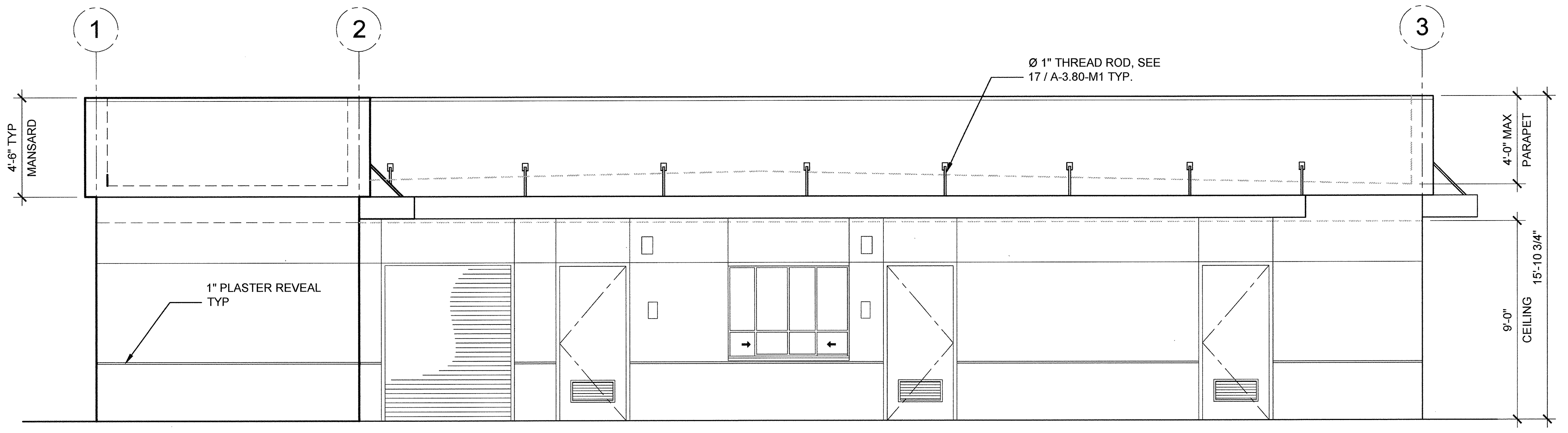
SILVER CREEK INDUSTRIES

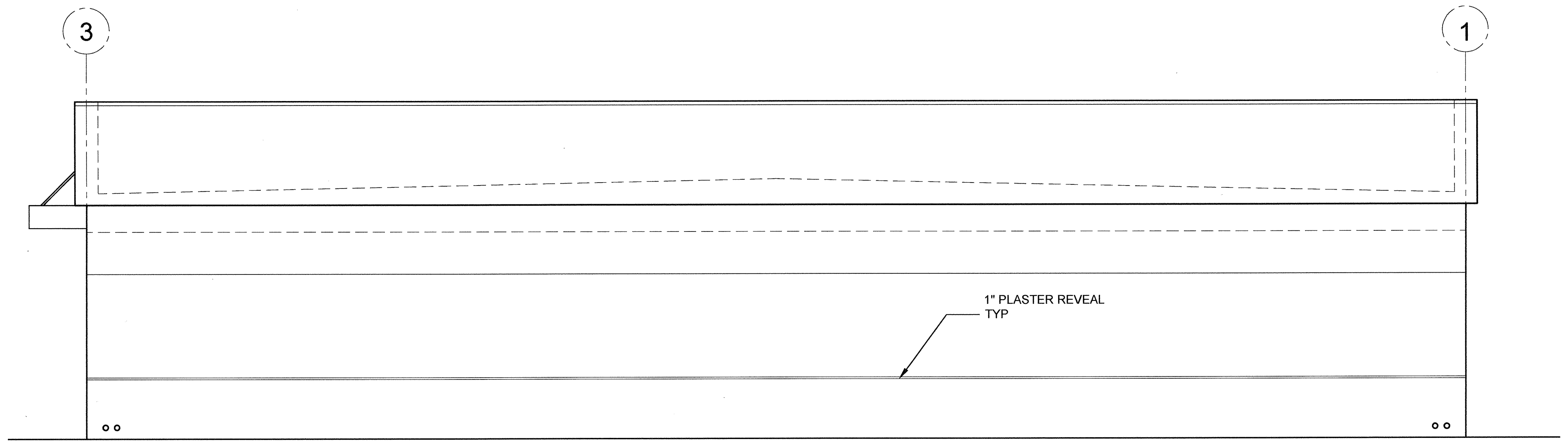
PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

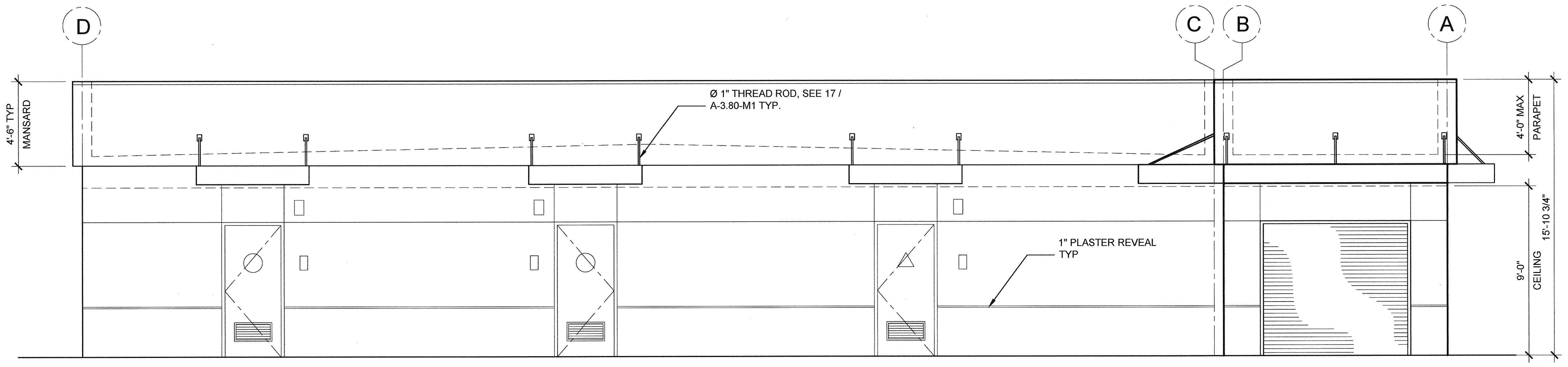
A-4.01-M1



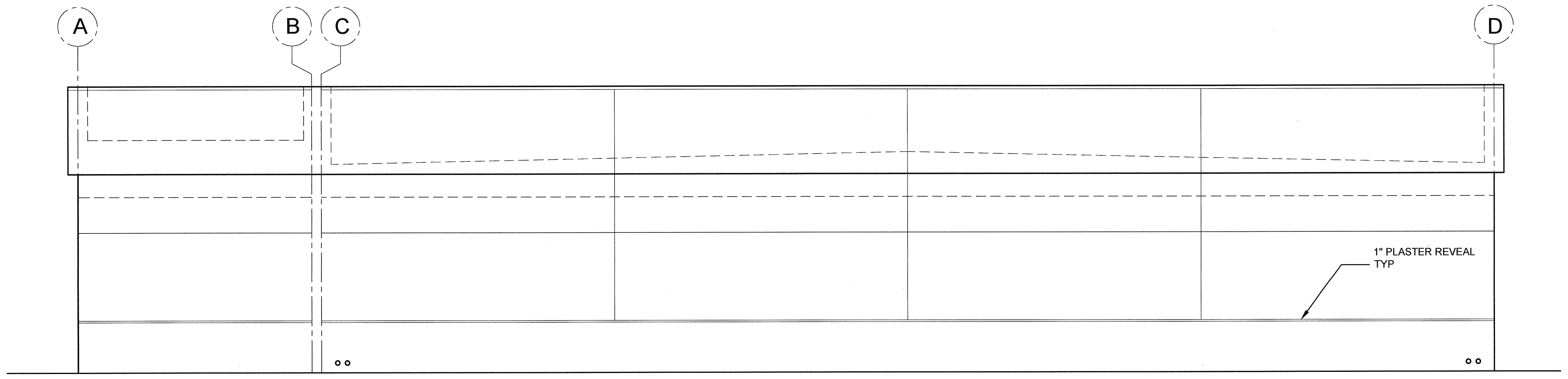
EXTERIOR ELEVATIONS - SOUTH SCALE: 1/4" = 1' - 0" 1



EXTERIOR ELEVATIONS - NORTH SCALE: 1/4" = 1' - 0" 2



EXTERIOR ELEVATIONS - EAST SCALE: 1/4" = 1' - 0" 3



EXTERIOR ELEVATIONS - WEST SCALE: 1/4" = 1' - 0" 4

NOTES (EXTERIOR ELEVATION)

DETAIL SCHEDULE

EXTERIOR FINISH:	SHEET #:
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

EXTERIOR ELEVATION
12' X 40' - MODEL A-1
MONO / DUAL SLOPE

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

A-4.02-M1

DETAIL SCHEDULE

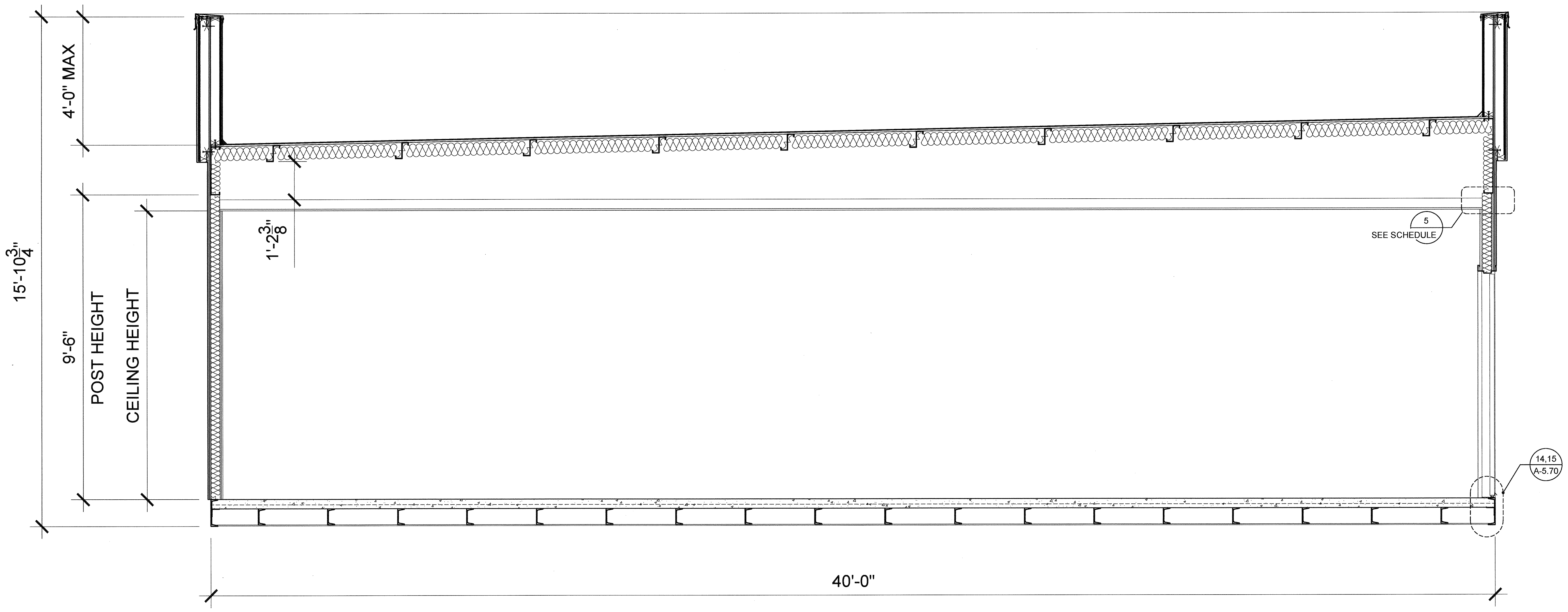
WALL FINISH:	SHEET #:
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1

FLOOR OPTION

CONCRETE FLOOR

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.



BUILDING SECTION @ 40' TOILET

SCALE: 1" = 1'-0" 1

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SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

CROSS SECTION
MONO SLOPE

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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AC N.N. FLS ___ SS ___
Date FEB 03 2017

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

A-5.01-M1

DETAIL SCHEDULE

WALL ~~FINISH:~~	SHEET #:
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1

FLOOR OPTION

CONCRETE FLOOR

NOTES

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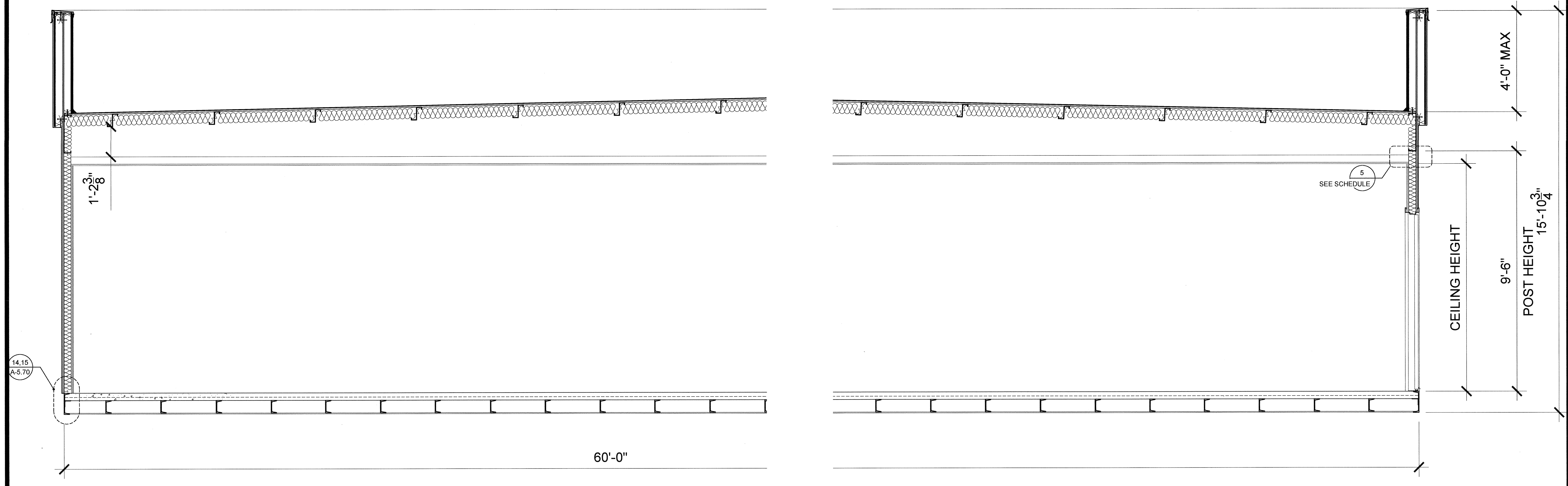

BUILDING SECTION @ CONCESSION BUILDING & 60' TOILET BUILDING

SCALE: 1" = 1'-0" 1

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SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

CROSS SECTION
DUAL SLOPE

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS EB SS
Date FEB 03 2017

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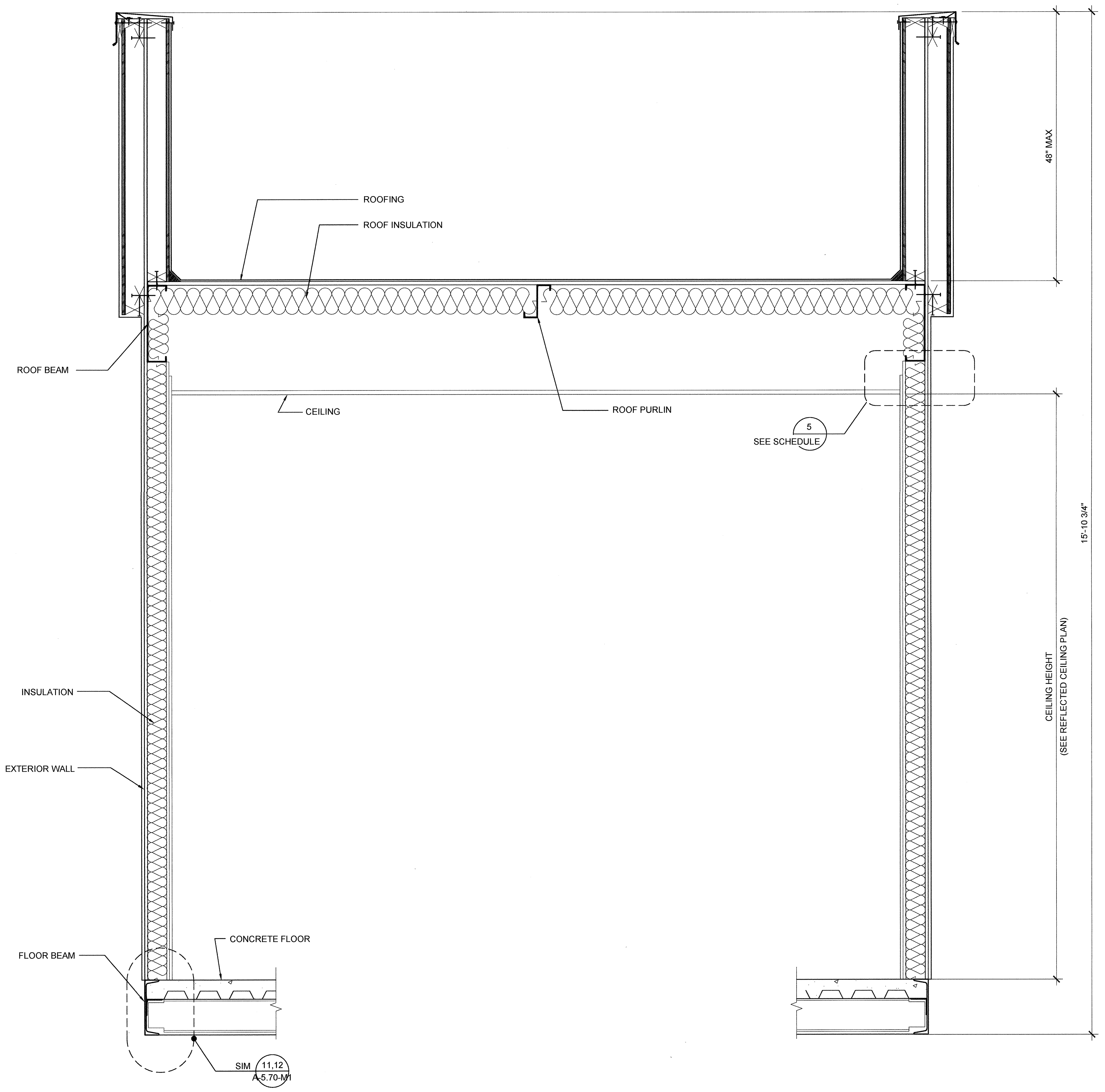
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

A-5.02-M1



CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1' - 0" 1

DETAIL SCHEDULE

WALL FINISH:	SHEET #:
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51-M1

FLOOR OPTION

CONCRETE FLOOR

NOTES

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COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.

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PROJECT NAME:
EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

CROSS SECTION

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

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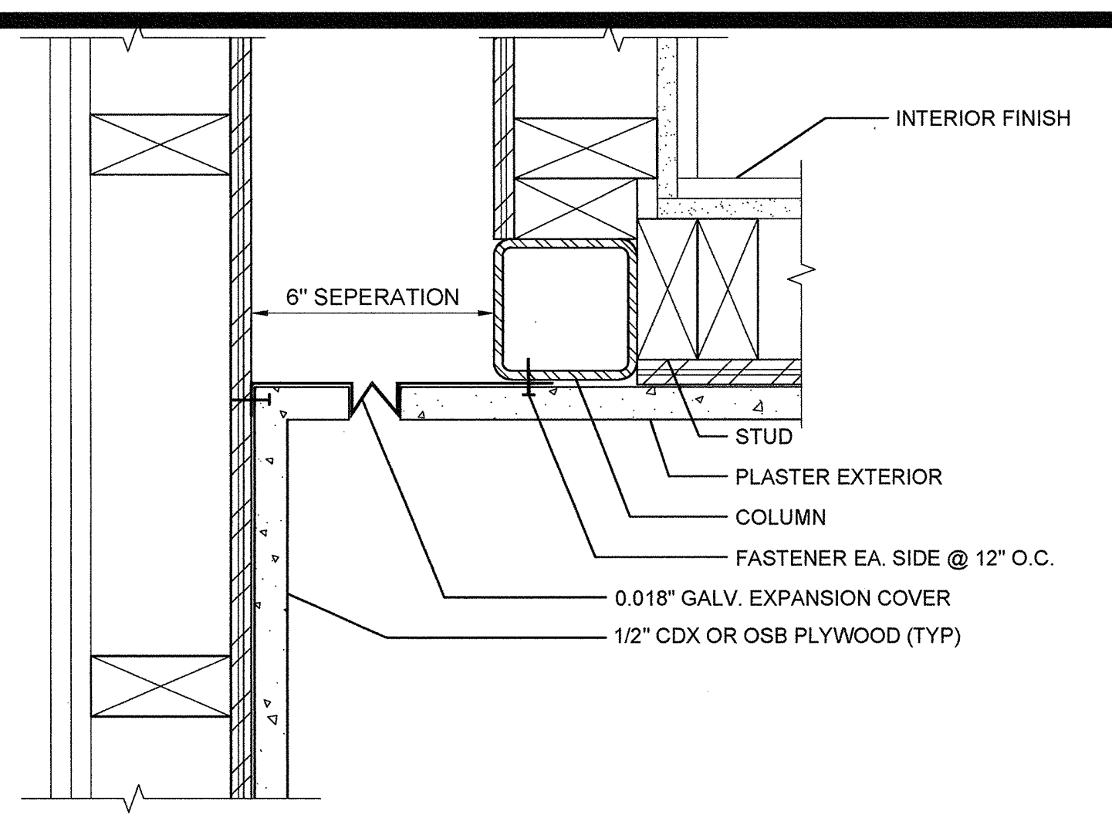
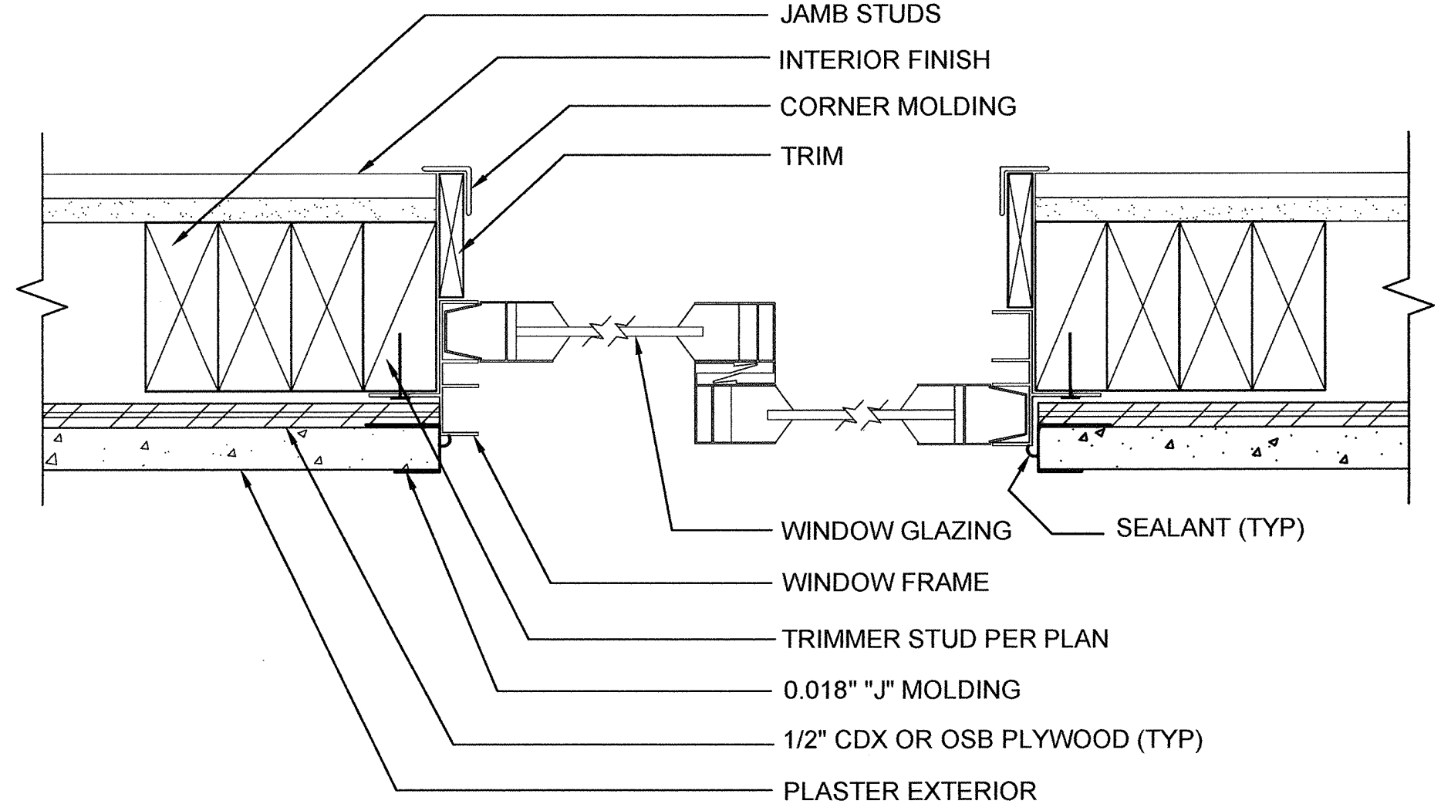
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

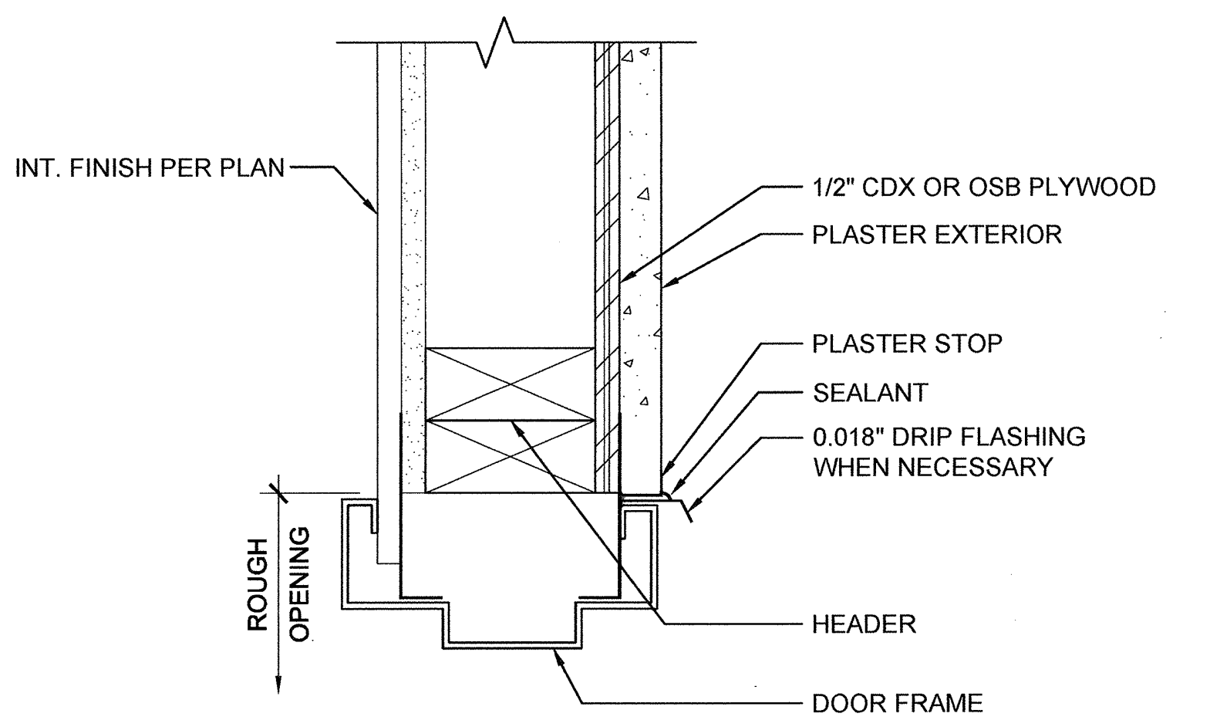
SHEET NUMBER
A-5.05-M1


INTERIOR FINISH
6" SEPERATION
STUD
PLASTER EXTERIOR
COLUMN
FASTENER EA. SIDE @ 12" O.C.
0.018" GALV. EXPANSION COVER
1/2" CDX OR OSB PLYWOOD (TYP)

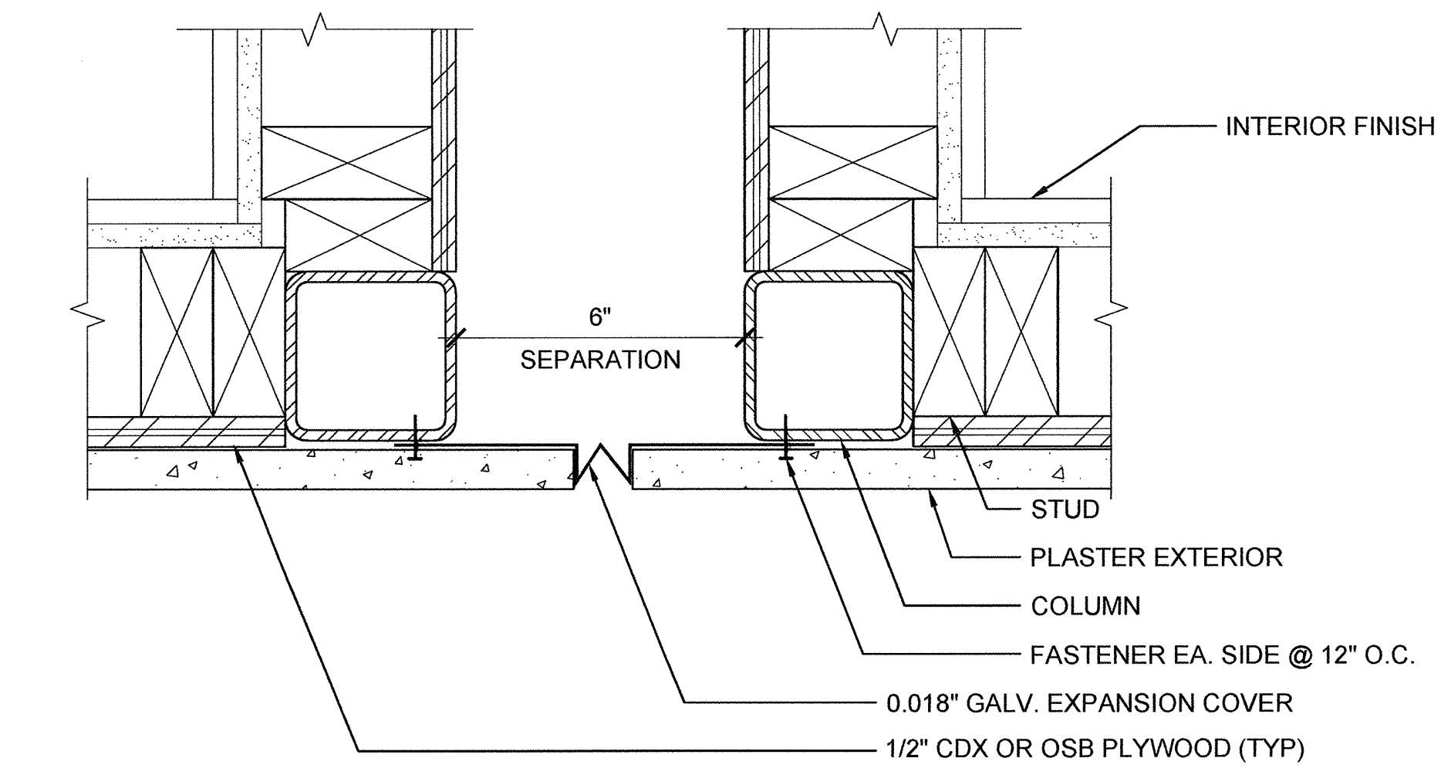
CLOSURE BETWEEN BUILDINGS @ CORNERS
SCALE: N.T.S. 16



WINDOW SECTION AT JAMBS
SCALE : 3"=1'-0" 11

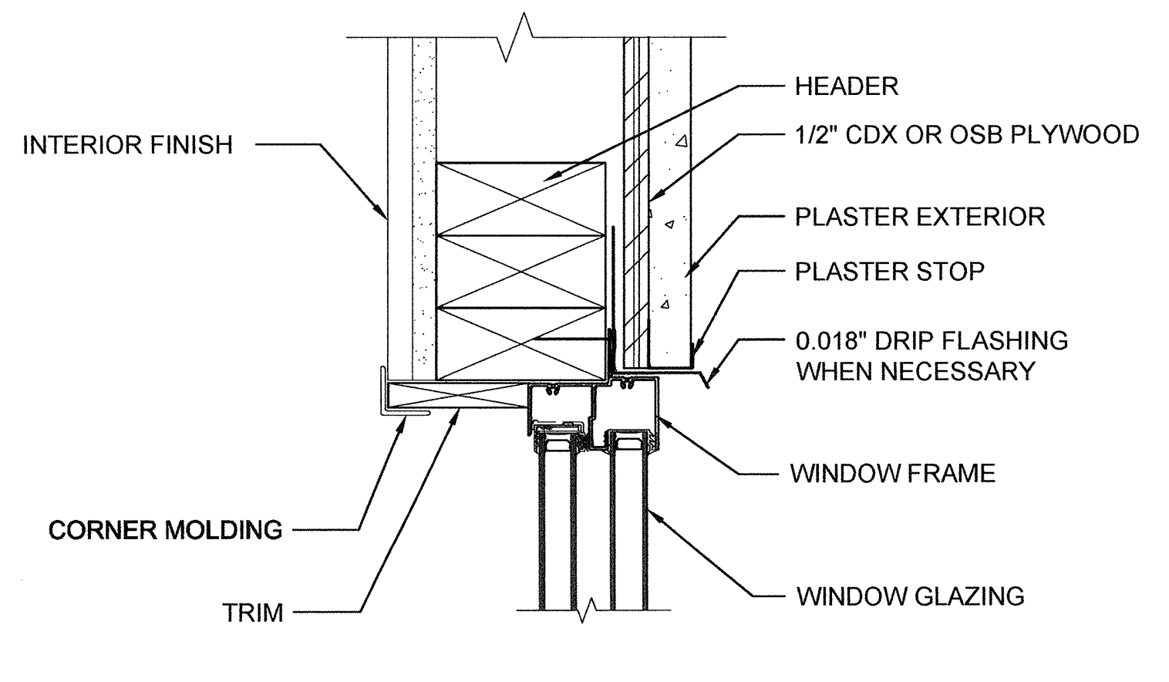


EXTERIOR DOOR HEADER
SCALE : 3"=1'-0" 6

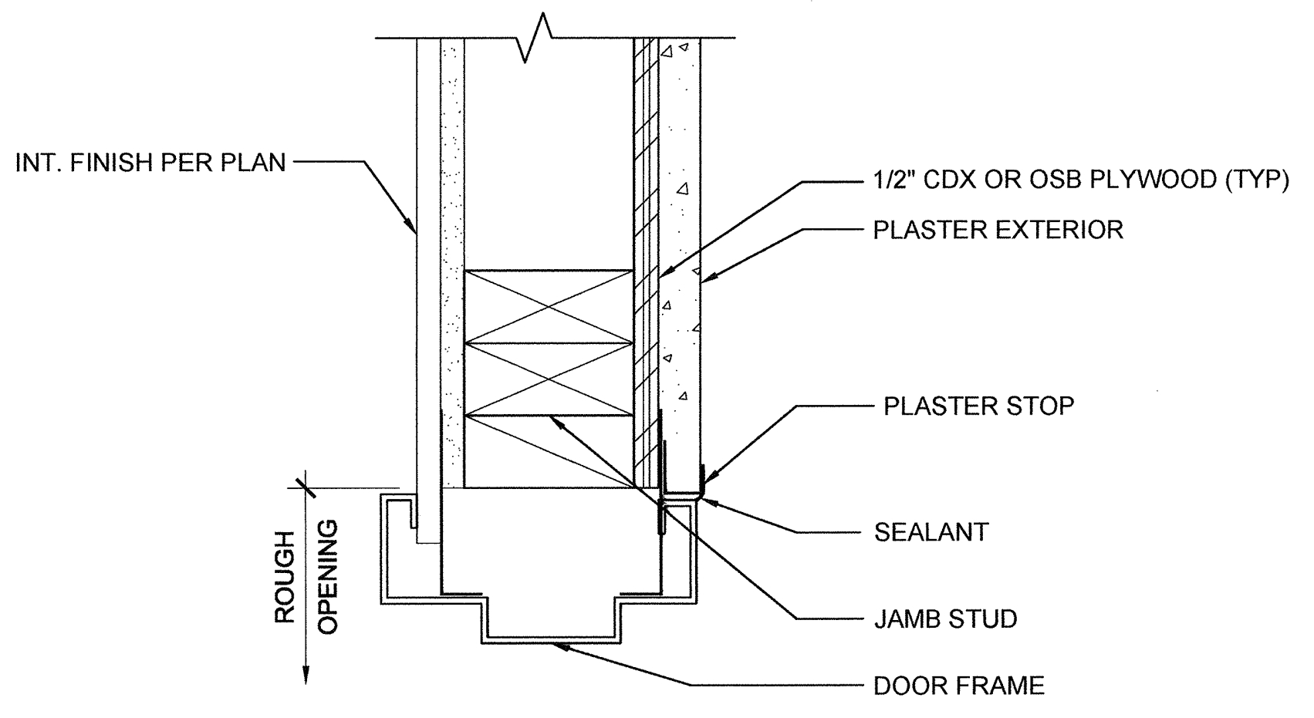

INTERIOR FINISH
6"
SEPARATION
STUD
PLASTER EXTERIOR
COLUMN
FASTENER EA. SIDE @ 12" O.C.
0.018" GALV. EXPANSION COVER
1/2" CDX OR OSB PLYWOOD (TYP)

CLOSURE BETWEEN BUILDINGS
SCALE : 3"=1'-0" 1

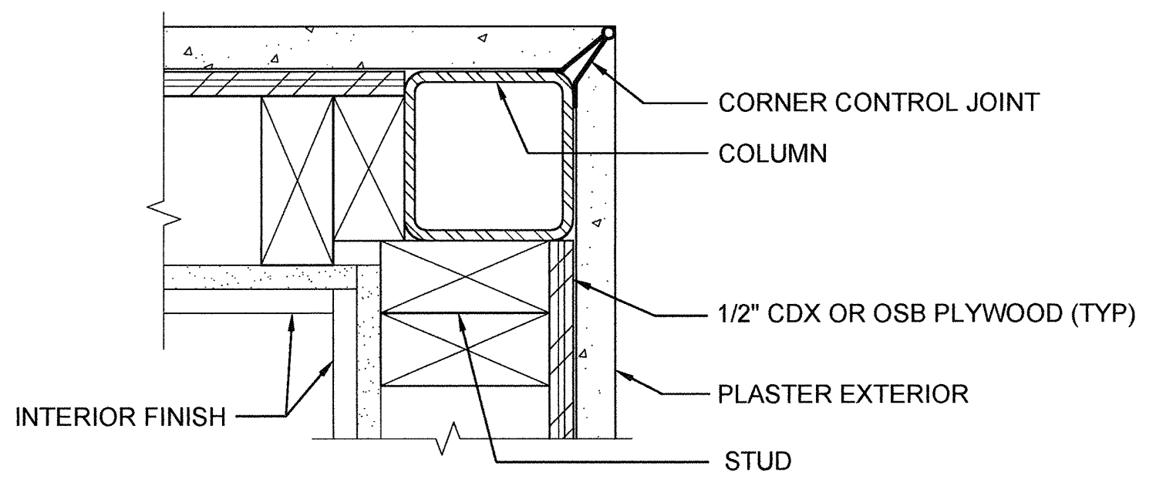
NOT USED
17



WINDOW HEADER
SCALE : 3"=1'-0" 12



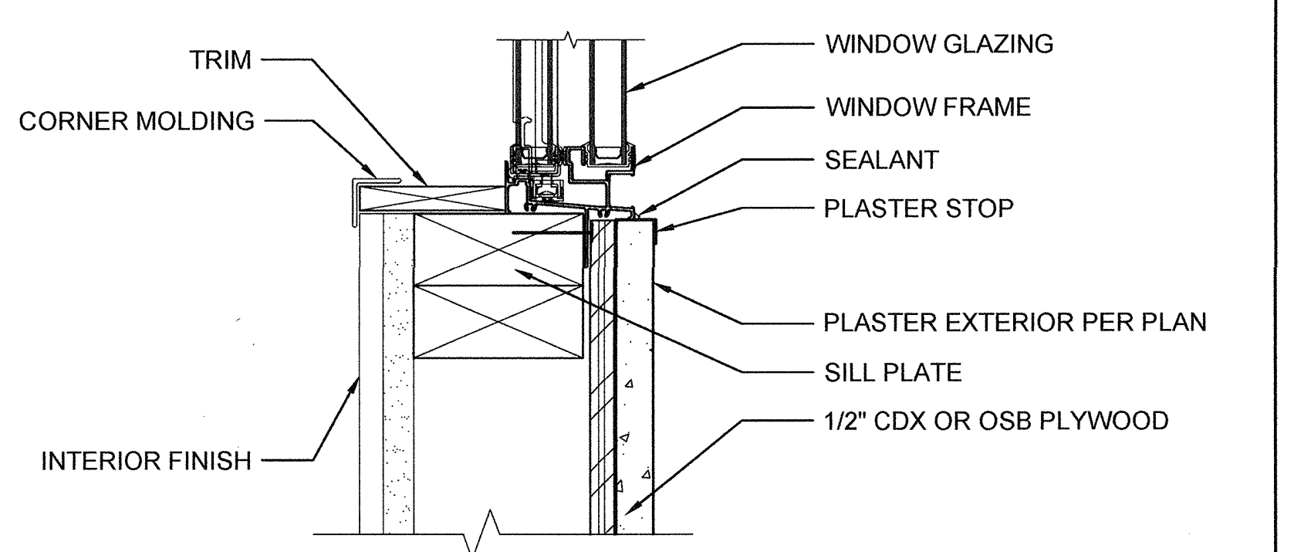
EXTERIOR DOOR JAMB
SCALE : 3"=1'-0" 7



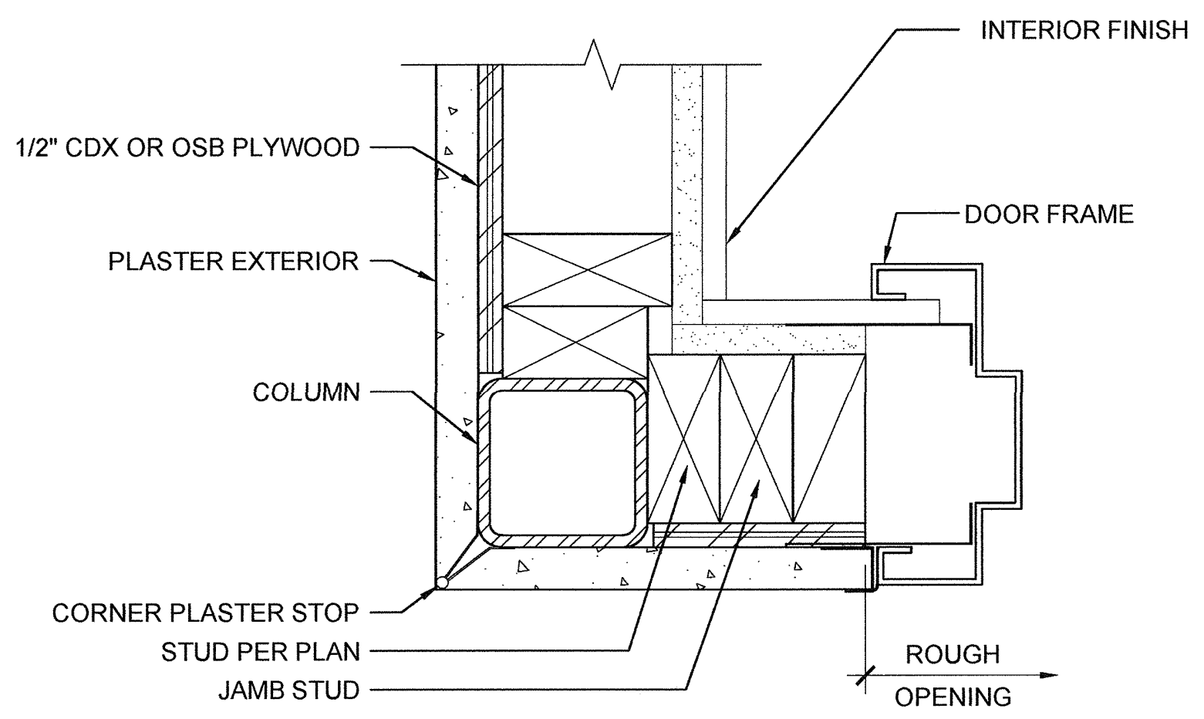
NOTE:
FOR ATTACHMENT OF STUD TO STEEL COLUMN, SEE 2 / S-5.10-M1

COLUMN AT CORNER
SCALE : 3"=1'-0" 2

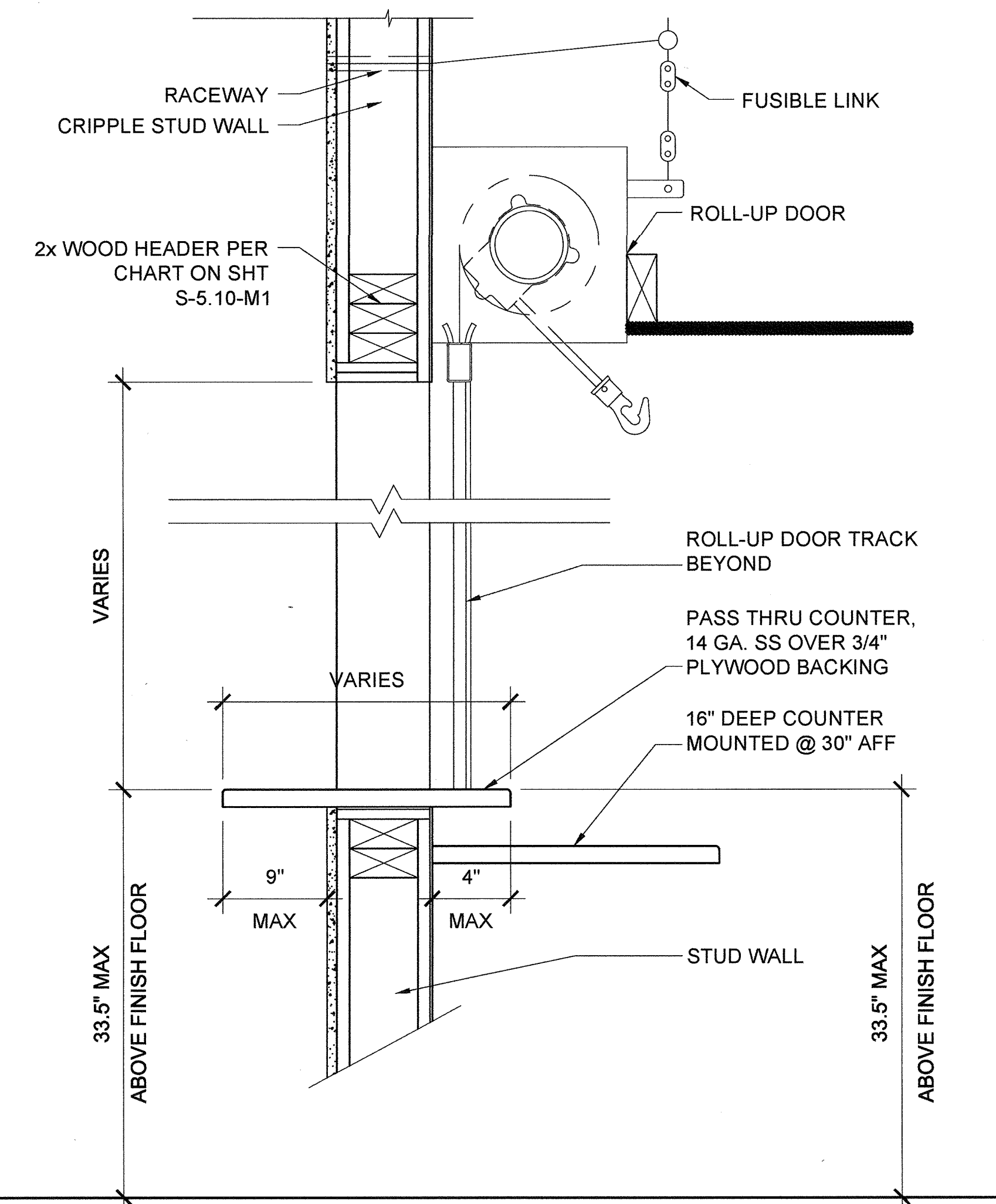
NOT USED
18



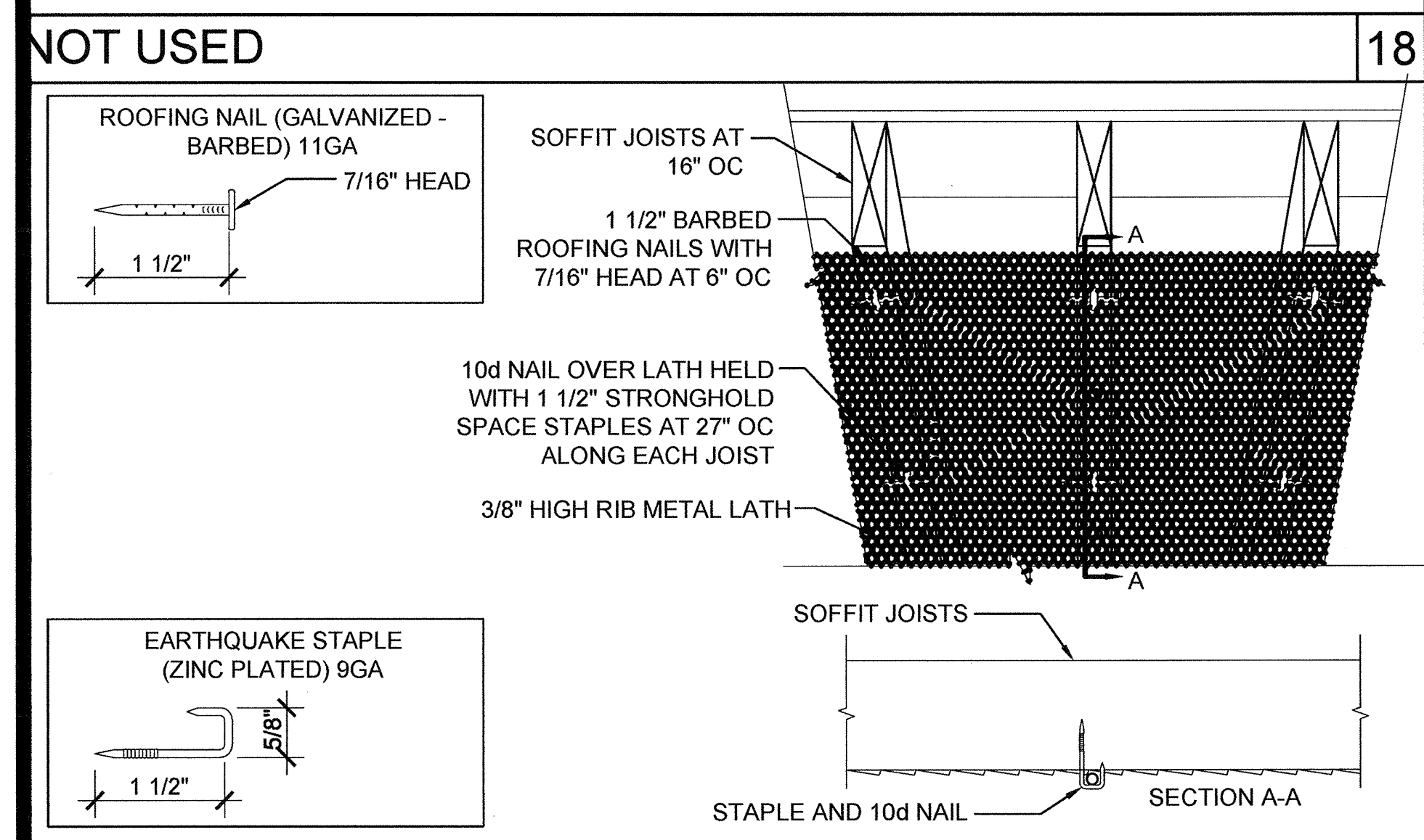
WINDOW SILL
SCALE : 3"=1'-0" 13



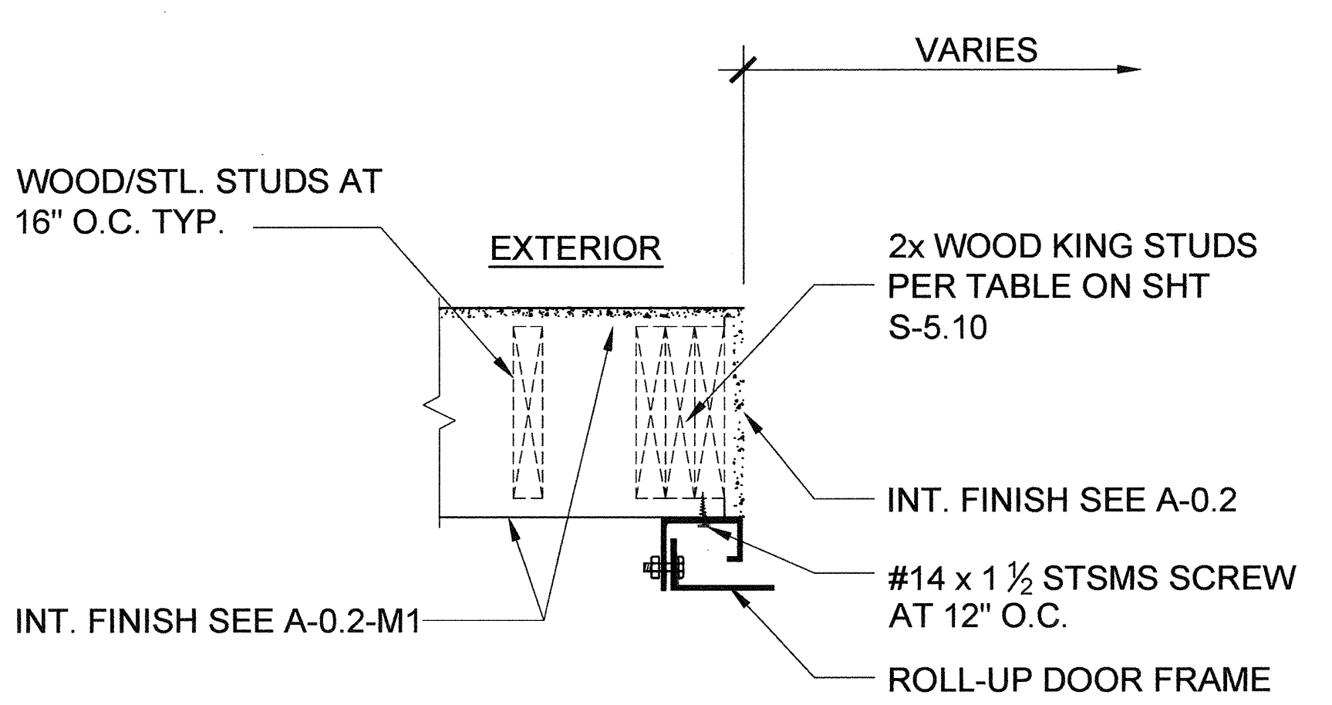
EXTERIOR DOOR JAMB
SCALE : 3"=1'-0" 8


FUSIBLE LINK
RACEWAY
CRIPPLE STUD WALL
ROLL-UP DOOR
2x WOOD HEADER PER CHART ON SHT S-5.10-M1
VARIES
ROLL-UP DOOR TRACK BEYOND
PASS THRU COUNTER, 14 GA. SS OVER 3/4" PLYWOOD BACKING
VARIES
16" DEEP COUNTER MOUNTED @ 30" AFF
9" MAX
4" MAX
STUD WALL
33.5" MAX ABOVE FINISH FLOOR
33.5" MAX ABOVE FINISH FLOOR

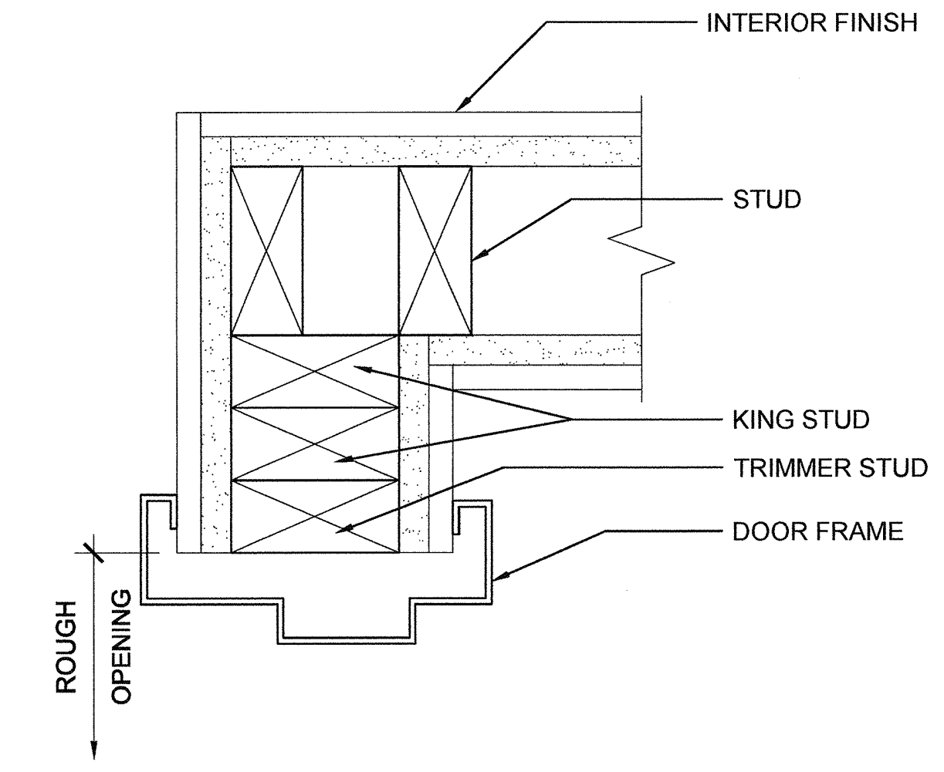
ROLL UP DOOR DETAIL
4


ROOFING NAIL (GALVANIZED - BARBED) 11GA
7/16" HEAD
1 1/2"
SOFFIT JOISTS AT 16" OC
1 1/2" BARBED ROOFING NAILS WITH 7/16" HEAD AT 6" OC
A
10d NAIL OVER LATH HELD WITH 1 1/2" STRONGHOLD SPACE STAPLES AT 27" OC ALONG EACH JOIST
3/8" HIGH RIB METAL LATH
A
EARTHQUAKE STAPLE (ZINC PLATED) 9GA
5/8"
1 1/2"
SOFFIT JOISTS
STAPLE AND 10d NAIL
SECTION A-A

METAL LATH ATTACHMENT TO WOOD JOIST
SCALE : 1 1/2" = 1'-0" 19


VARIES
WOOD/STL. STUDS AT 16" O.C. TYP.
EXTERIOR
2x WOOD KING STUDS PER TABLE ON SHT S-5.10
INT. FINISH SEE A-0.2
#14 x 1 ½ STSMS SCREW AT 12" O.C.
INT. FINISH SEE A-0.2-M1
ROLL-UP DOOR FRAME

JAMB AT ROLL UP DOOR
14



INTERIOR DOOR JAMB
SCALE : 3"=1'-0" 9

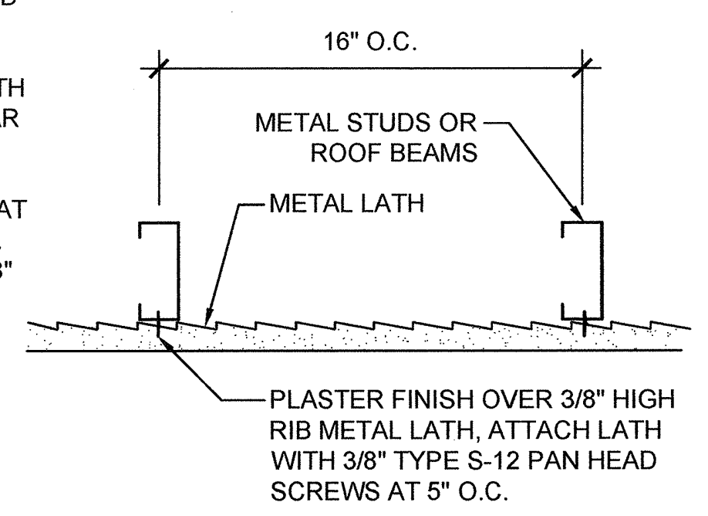
20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

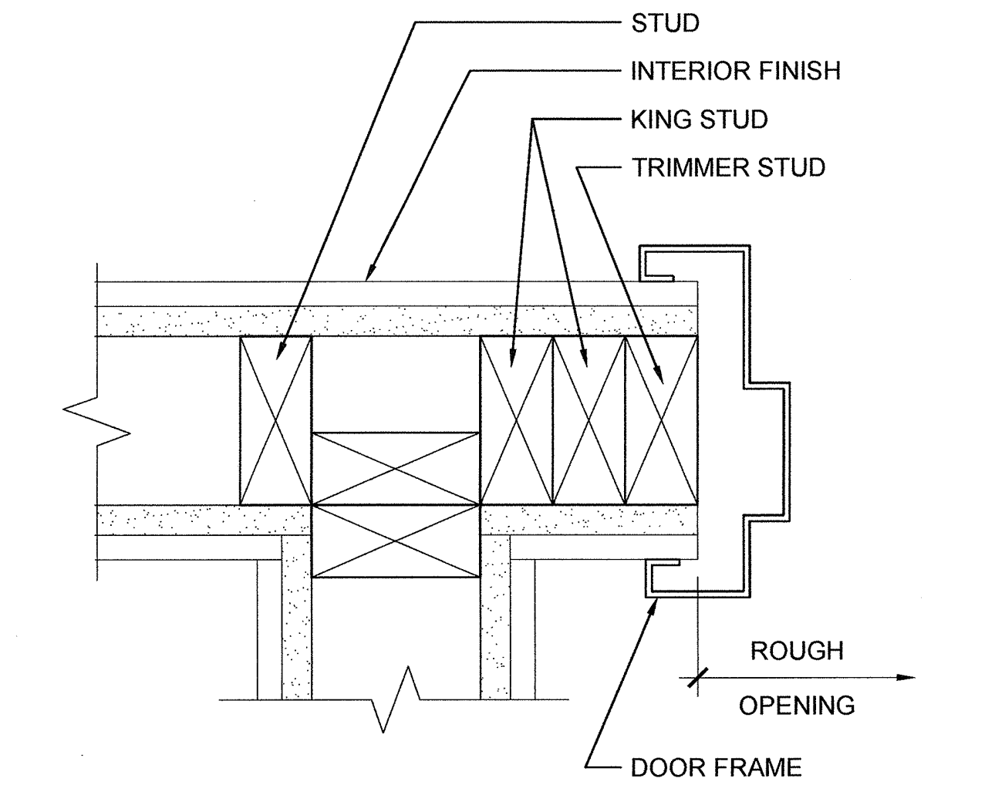
2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

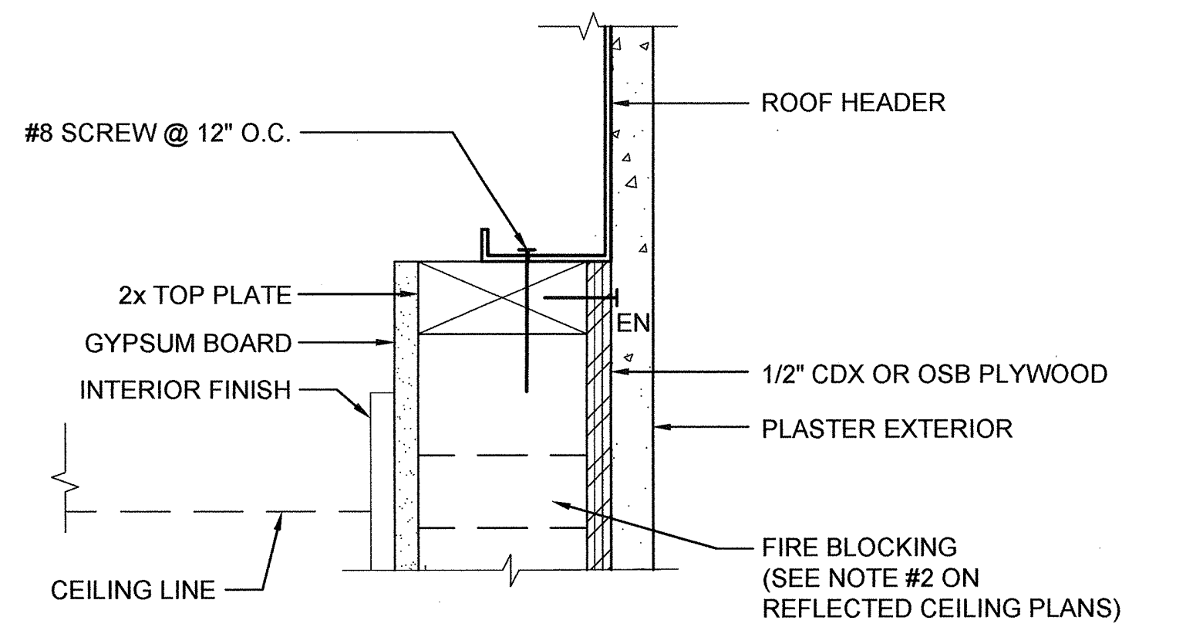
4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.


16" O.C.
METAL STUDS OR ROOF BEAMS
METAL LATH
PLASTER FINISH OVER 3/8" HIGH RIB METAL LATH, ATTACH LATH WITH 3/8" TYPE S-12 PAN HEAD SCREWS AT 5" O.C.

METAL LATH ATTACHMENT TO METAL JOIST
SCALE : NTS 15



INTERIOR DOOR JAMBS
SCALE : 3"=1'-0" 10



TOP PLATE AT ROOF HEADER
SCALE : 3" = 1'-0" 5

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SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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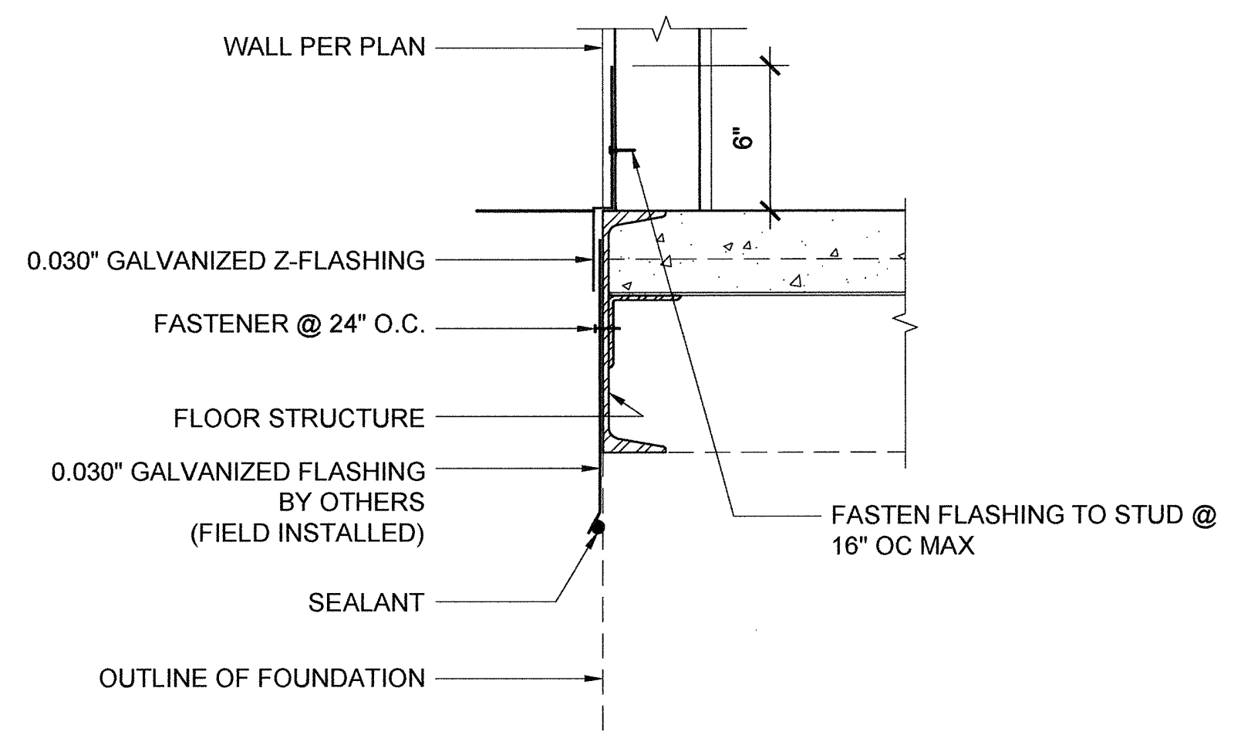
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
A-5.51-M1

NOT USED 16

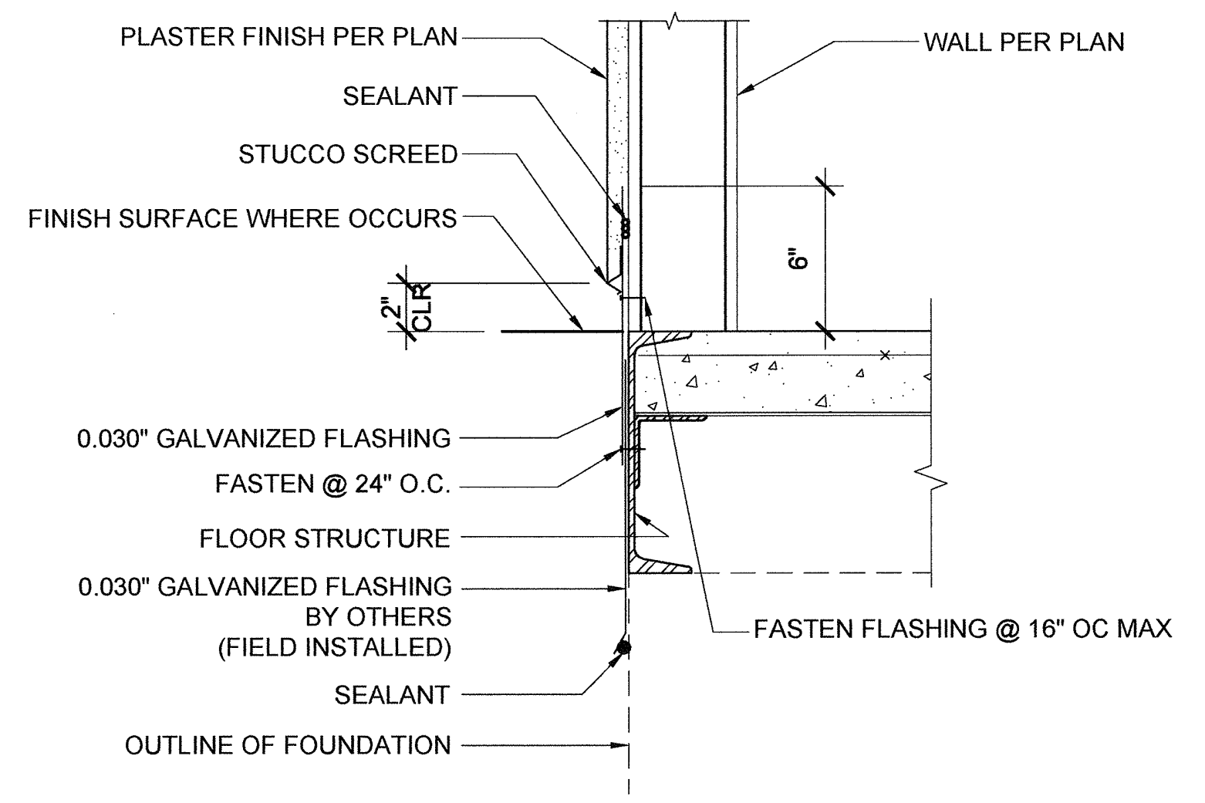

WALL PER PLAN
6"
0.030" GALVANIZED Z-FLASHING
FASTENER @ 24" O.C.
FLOOR STRUCTURE
0.030" GALVANIZED FLASHING BY OTHERS (FIELD INSTALLED)
FASTEN FLASHING TO STUD @ 16" OC MAX
SEALANT
OUTLINE OF FOUNDATION

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 11

NOT USED 6

NOT USED 1

NOT USED 17


PLASTER FINISH PER PLAN
WALL PER PLAN
SEALANT
STUCCO SCREED
FINISH SURFACE WHERE OCCURS
6"
2" CLR
0.030" GALVANIZED FLASHING
FASTEN @ 24" O.C.
FLOOR STRUCTURE
0.030" GALVANIZED FLASHING BY OTHERS (FIELD INSTALLED)
FASTEN FLASHING @ 16" OC MAX
SEALANT
OUTLINE OF FOUNDATION

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 12

NOT USED 7

NOT USED 2

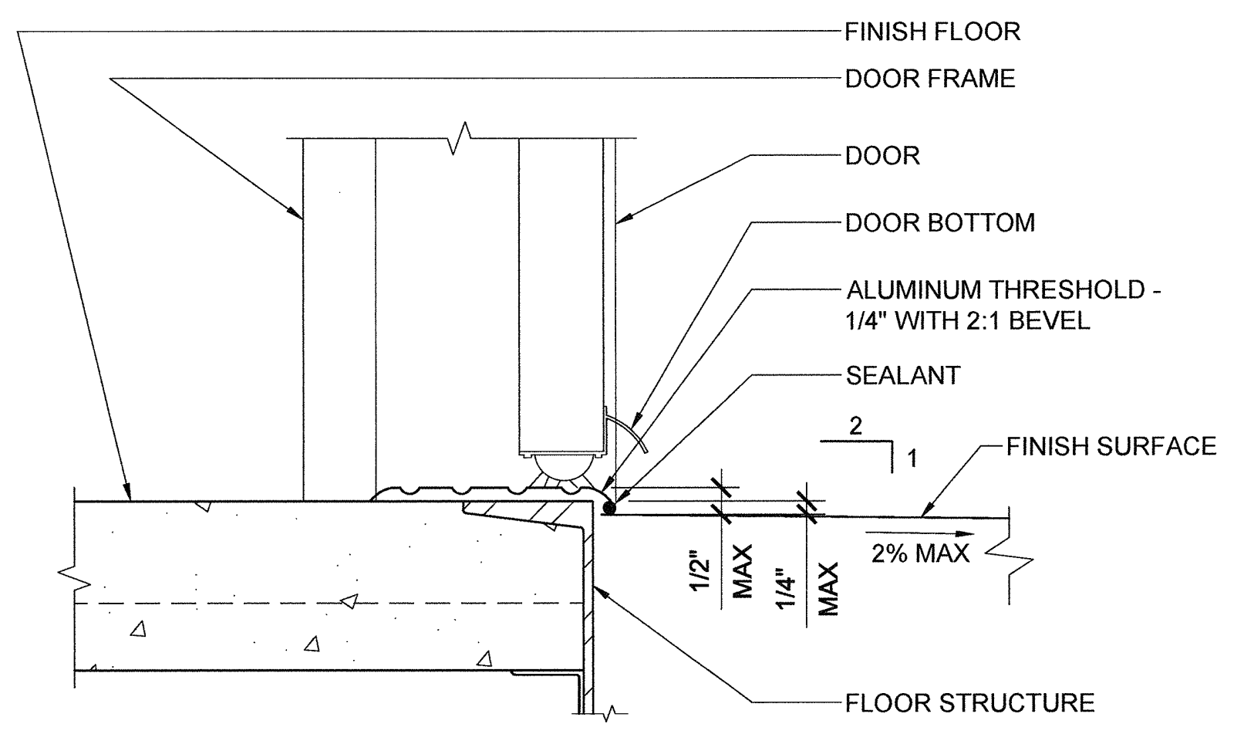
NOT USED 18

NOT USED 13

NOT USED 8

NOT USED 3

NOT USED 19

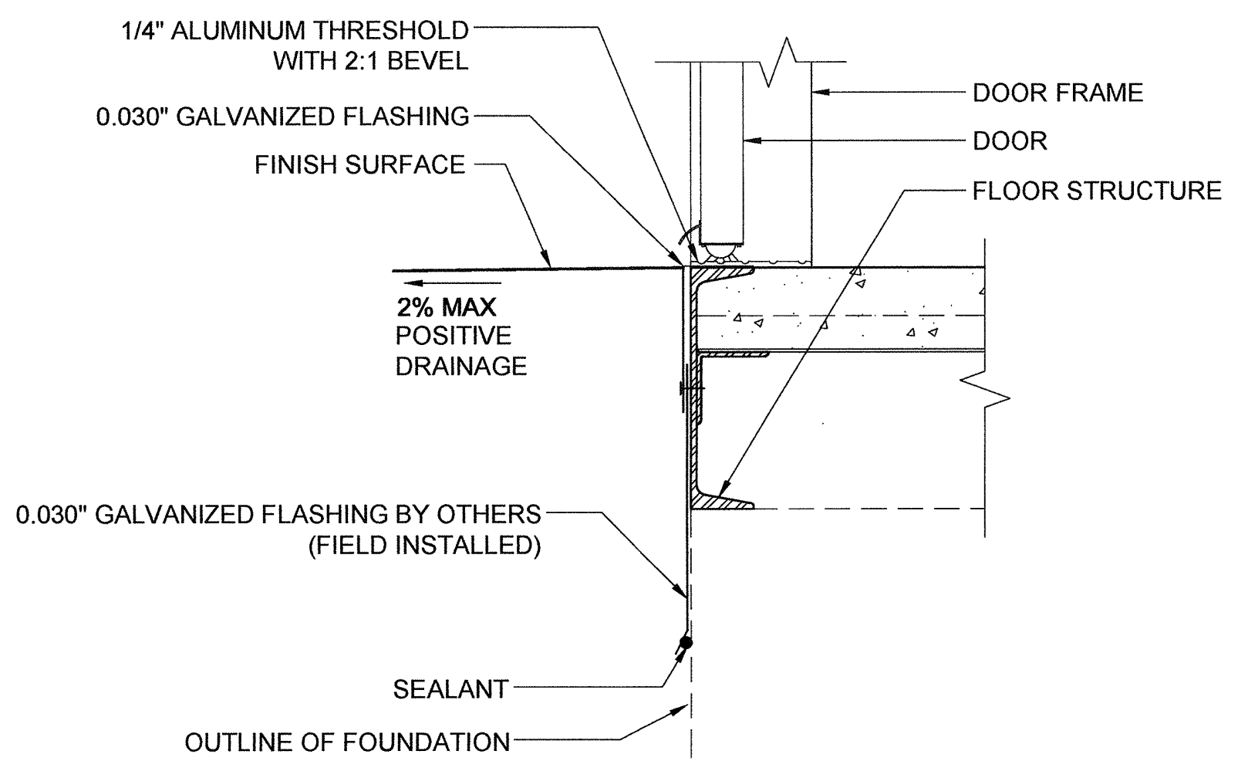


THRESHOLD SCALE : 3"=1'-0" 14

NOT USED 9

NOT USED 4

NOT USED 20


1/4" ALUMINUM THRESHOLD WITH 2:1 BEVEL
DOOR FRAME
0.030" GALVANIZED FLASHING
DOOR
FINISH SURFACE
FLOOR STRUCTURE
2% MAX POSITIVE DRAINAGE
0.030" GALVANIZED FLASHING BY OTHERS (FIELD INSTALLED)
SEALANT
OUTLINE OF FOUNDATION

TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" 15

NOT USED 10

NOT USED 5

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PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
ARCHITECTURAL
DETAILS
FLOOR

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date
FEB 0 3 2017

REVISIONS
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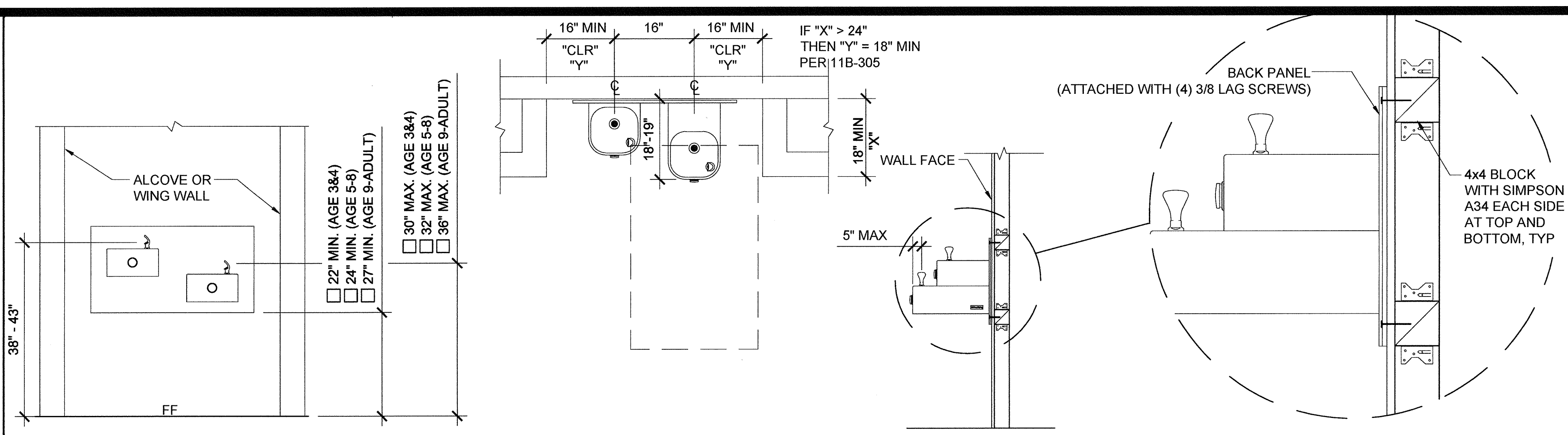
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER
A-5.70-M1

NOT USED 11



DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" 1

NOT USED 17

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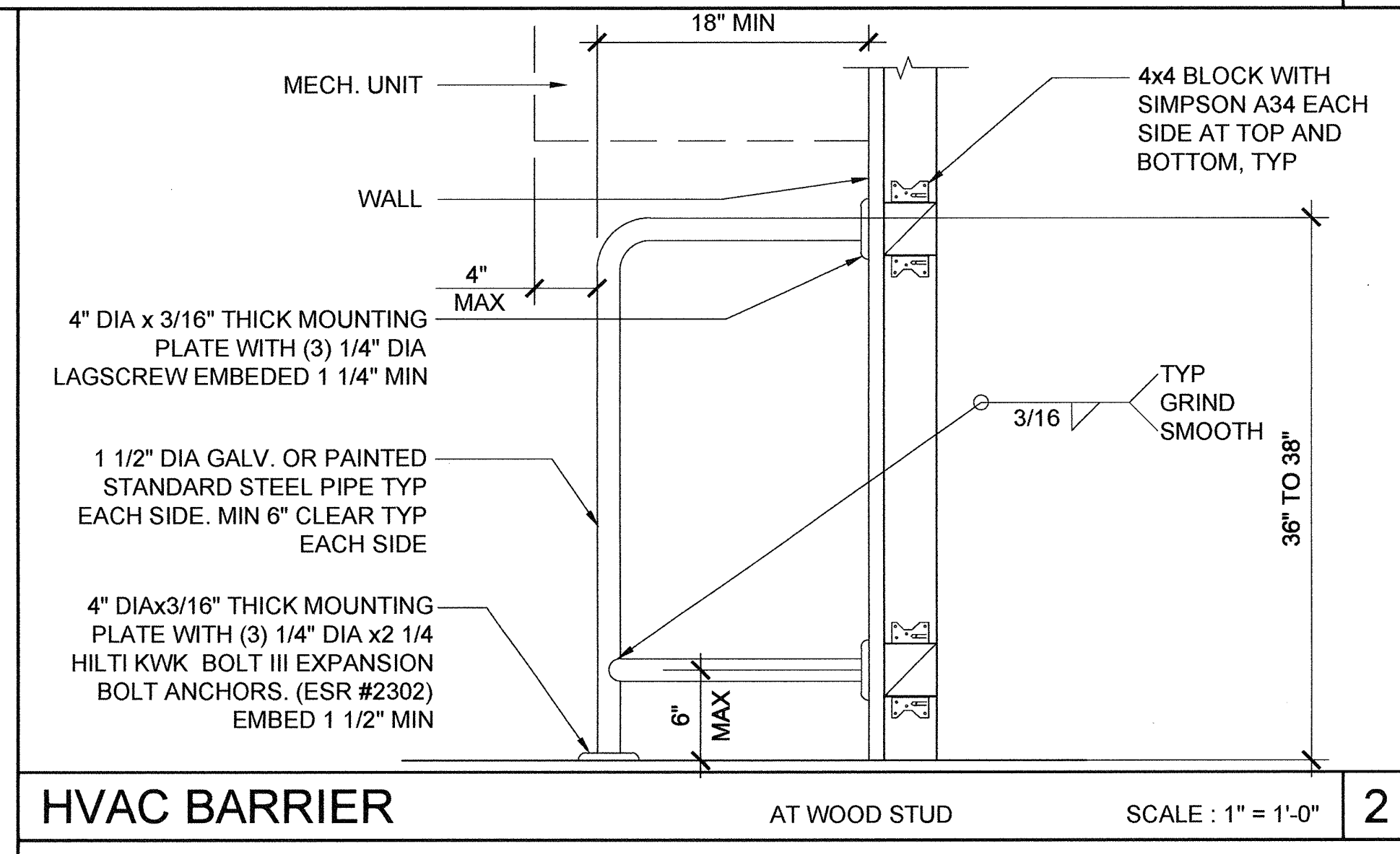
NOT USED 8

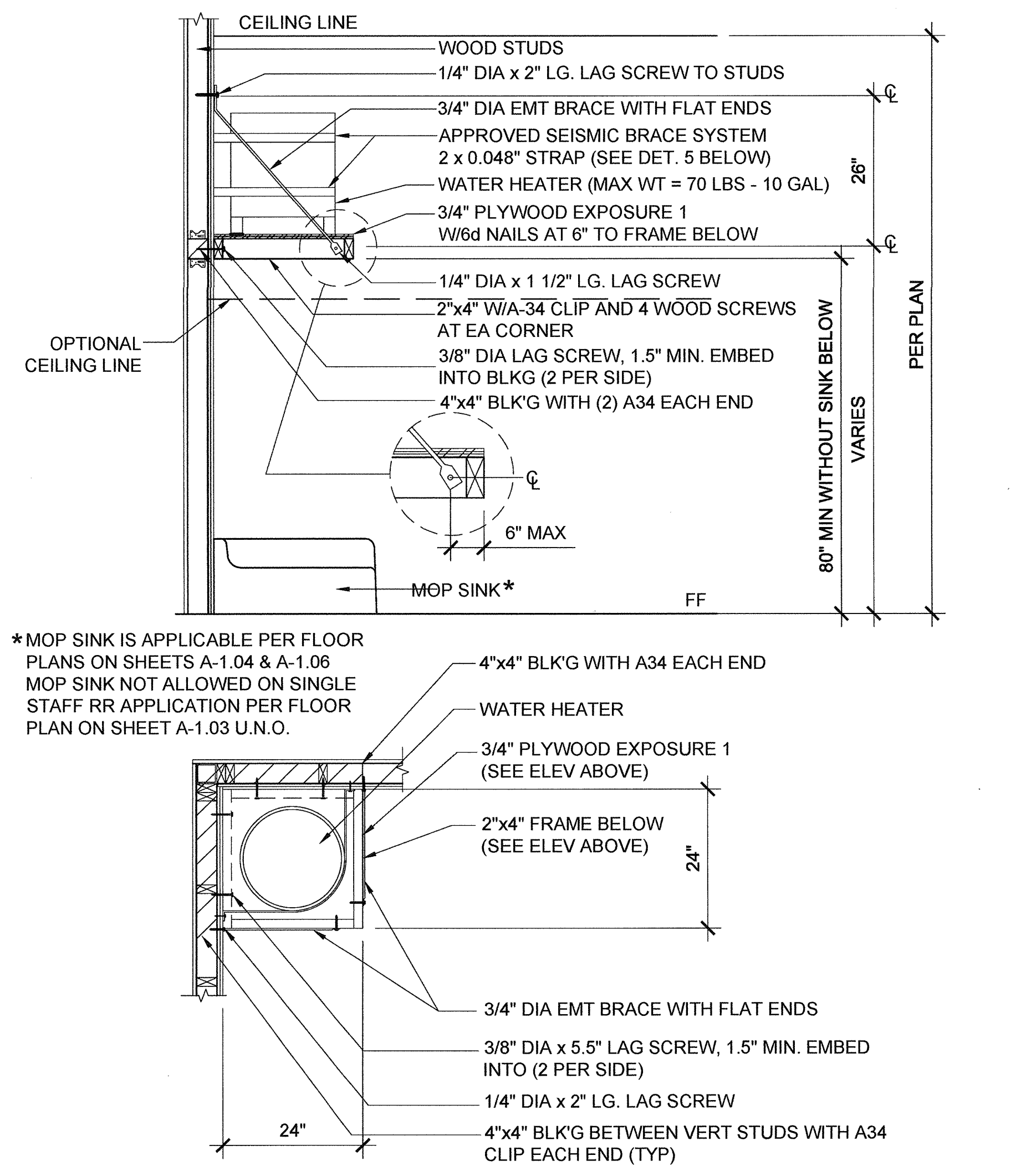

18" MIN
MECH. UNIT
WALL
4" MAX
4" DIA x 3/16" THICK MOUNTING PLATE WITH (3) 1/4" DIA LAGSCREW EMBEDED 1 1/4" MIN
1 1/2" DIA GALV. OR PAINTED STANDARD STEEL PIPE TYP EACH SIDE. MIN 6" CLEAR TYP EACH SIDE
4" DIAx3/16" THICK MOUNTING PLATE WITH (3) 1/4" DIA x2 1/4 HILTI KWK BOLT III EXPANSION BOLT ANCHORS. (ESR #2302) EMBED 1 1/2" MIN
4x4 BLOCK WITH SIMPSON A34 EACH SIDE AT TOP AND BOTTOM, TYP
3/16
TYP GRIND SMOOTH
36" TO 38"
6" MAX

HVAC BARRIER AT WOOD STUD

SCALE : 1" = 1'-0" 2

NOT USED 19

NOT USED 14


CEILING LINE
WOOD STUDS
1/4" DIA x 2" LG. LAG SCREW TO STUDS
3/4" DIA EMT BRACE WITH FLAT ENDS
APPROVED SEISMIC BRACE SYSTEM 2 x 0.048" STRAP (SEE DET. 5 BELOW)
WATER HEATER (MAX WT = 70 LBS - 10 GAL)
3/4" PLYWOOD EXPOSURE 1 W/6d NAILS AT 6" TO FRAME BELOW
1/4" DIA x 1 1/2" LG. LAG SCREW
2"x4" W/A-34 CLIP AND 4 WOOD SCREWS AT EA CORNER
3/8" DIA LAG SCREW, 1.5" MIN. EMBED INTO BLKG (2 PER SIDE)
4"x4" BLK'G WITH (2) A34 EACH END
OPTIONAL CEILING LINE
6" MAX
MOP SINK*
FF
26"
80" MIN WITHOUT SINK BELOW
VARIES
PER PLAN
4"x4" BLK'G WITH A34 EACH END
WATER HEATER
3/4" PLYWOOD EXPOSURE 1 (SEE ELEV ABOVE)
2"x4" FRAME BELOW (SEE ELEV ABOVE)
24"
3/4" DIA EMT BRACE WITH FLAT ENDS
3/8" DIA x 5.5" LAG SCREW, 1.5" MIN. EMBED INTO (2 PER SIDE)
1/4" DIA x 2" LG. LAG SCREW
4"x4" BLK'G BETWEEN VERT STUDS WITH A34 CLIP EACH END (TYP)
24"

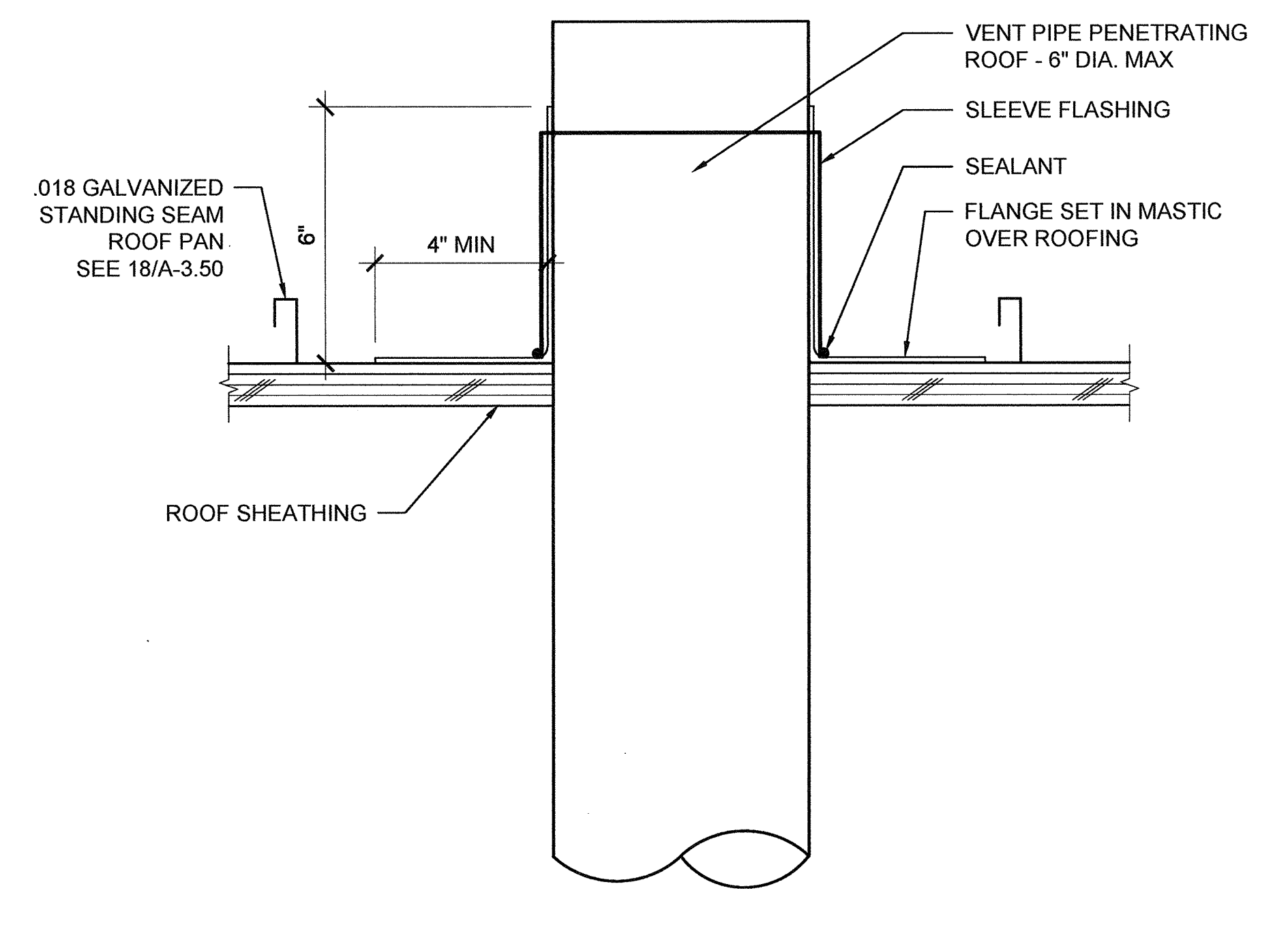
*MOP SINK IS APPLICABLE PER FLOOR PLANS ON SHEETS A-1.04 & A-1.06 MOP SINK NOT ALLOWED ON SINGLE STAFF RR APPLICATION PER FLOOR PLAN ON SHEET A-1.03 U.N.O.

WATER HEATER SHELF AT WOOD STUD

SCALE : 1/2" = 1'-0" 4

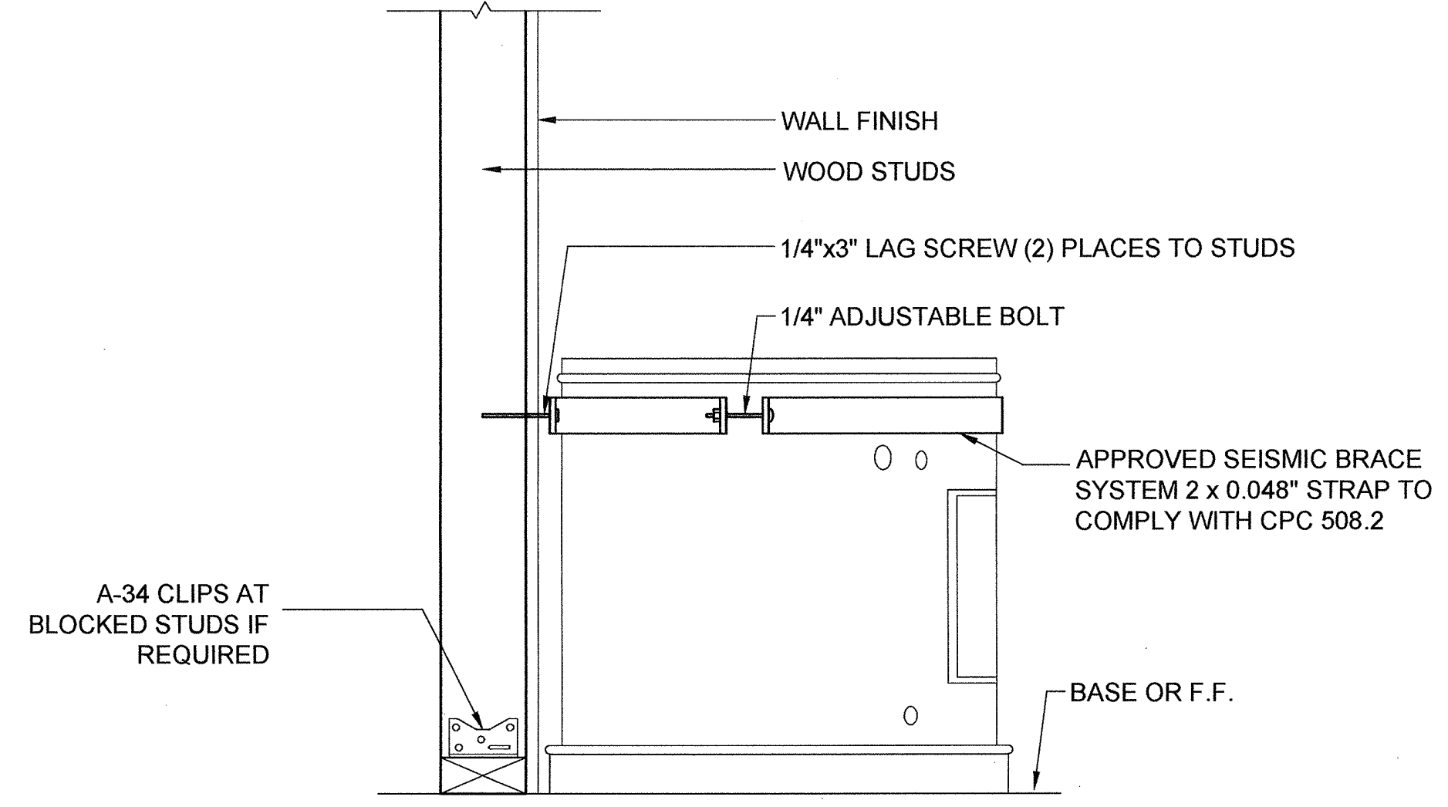
NOT USED 20

NOT USED 15


VENT PIPE PENETRATING ROOF - 6" DIA. MAX
SLEEVE FLASHING
SEALANT
FLANGE SET IN MASTIC OVER ROOFING
.018 GALVANIZED STANDING SEAM ROOF PAN SEE 18/A-3.50
6"
4" MIN
ROOF SHEATHING

PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" 10


WALL FINISH
WOOD STUDS
1/4"x3" LAG SCREW (2) PLACES TO STUDS
1/4" ADJUSTABLE BOLT
APPROVED SEISMIC BRACE SYSTEM 2 x 0.048" STRAP TO COMPLY WITH CPC 508.2
A-34 CLIPS AT BLOCKED STUDS IF REQUIRED
BASE OR F.F.

WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" 5

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ARCHITECTURAL DETAILS
MISCELLANEOUS

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS

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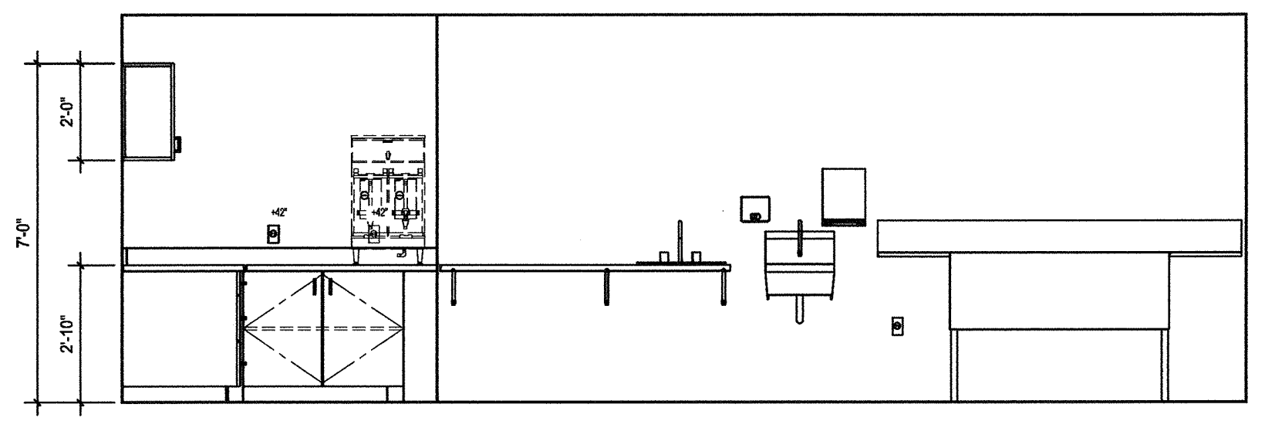
SILVER CREEK INDUSTRIES

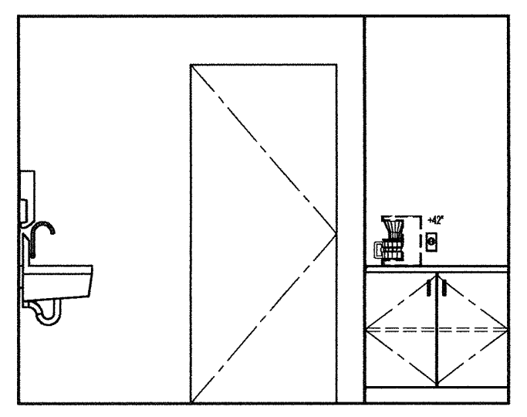
PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

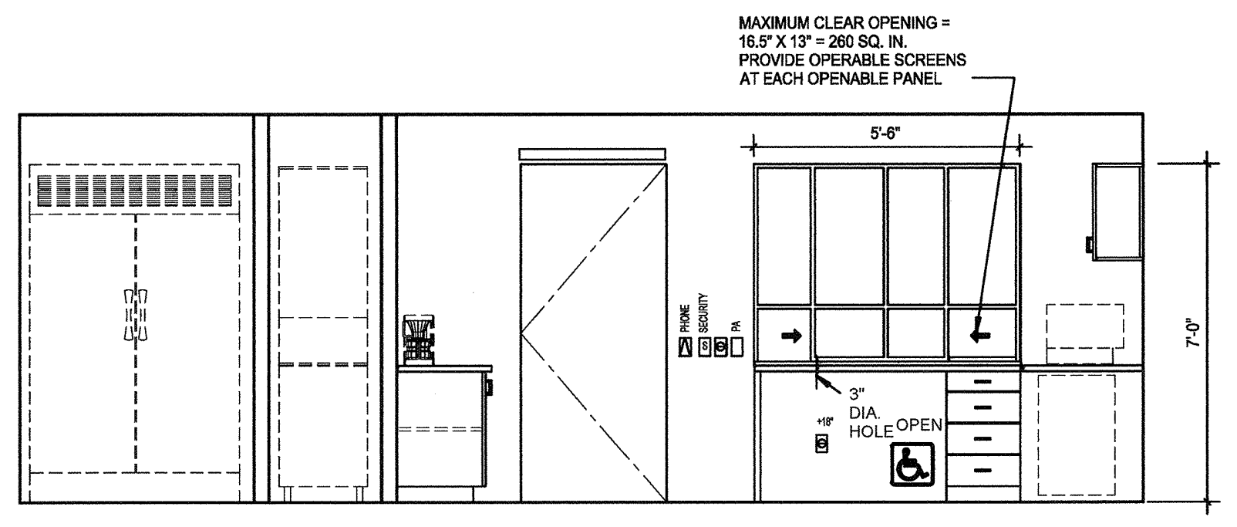
A-5.81-M1



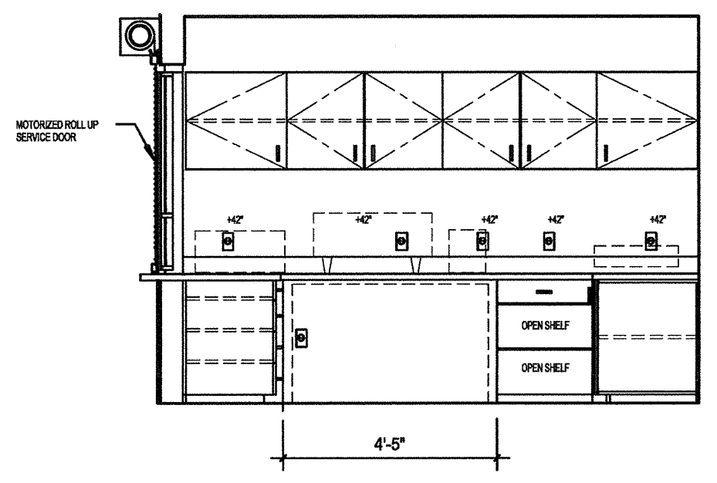
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 5



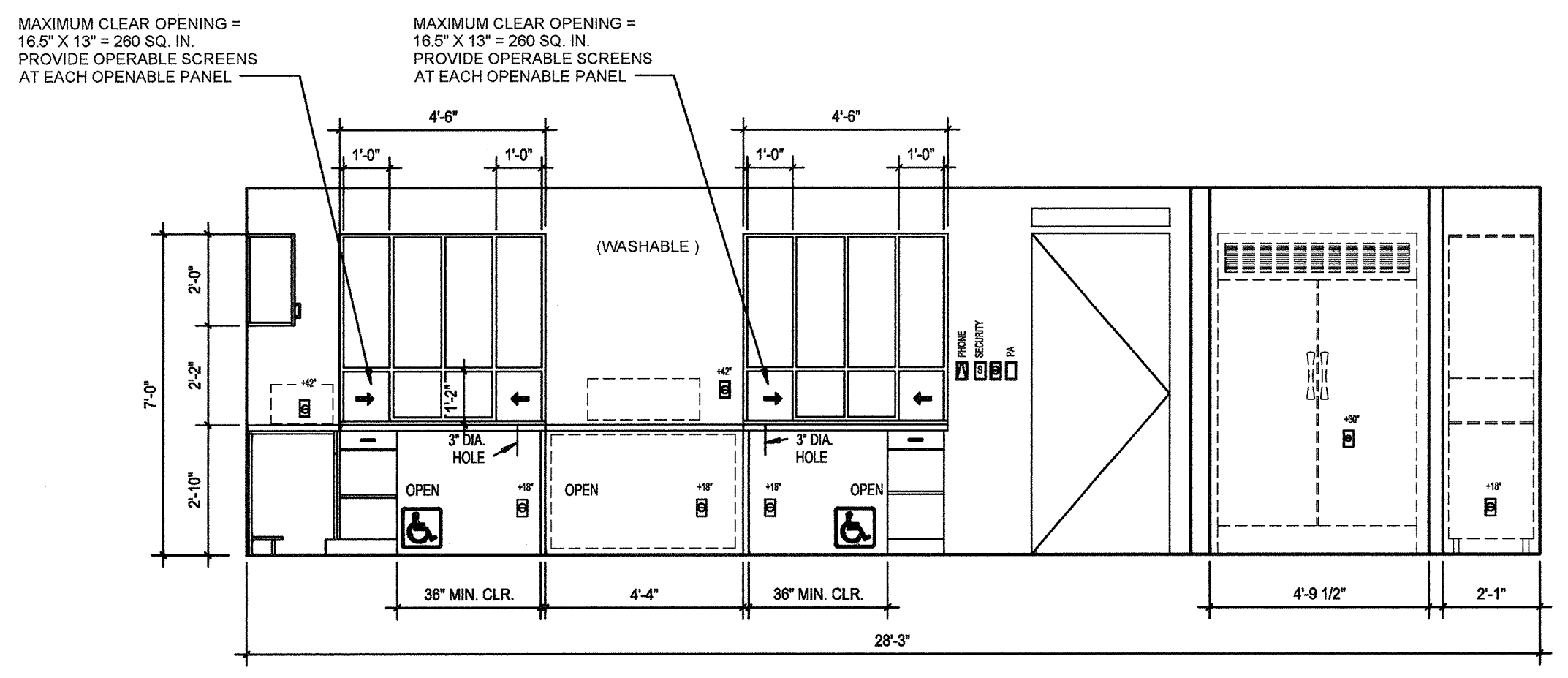
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 6



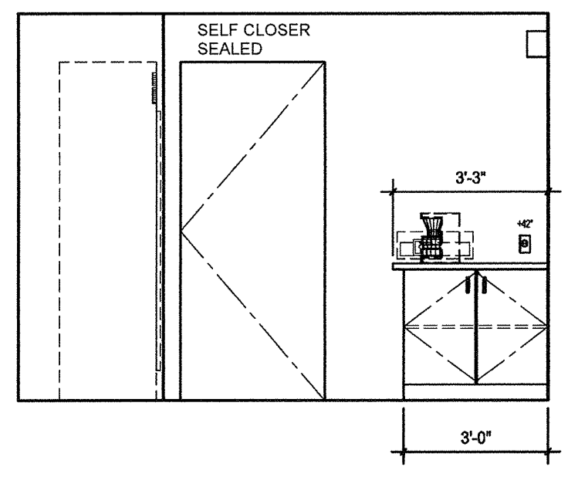
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 7



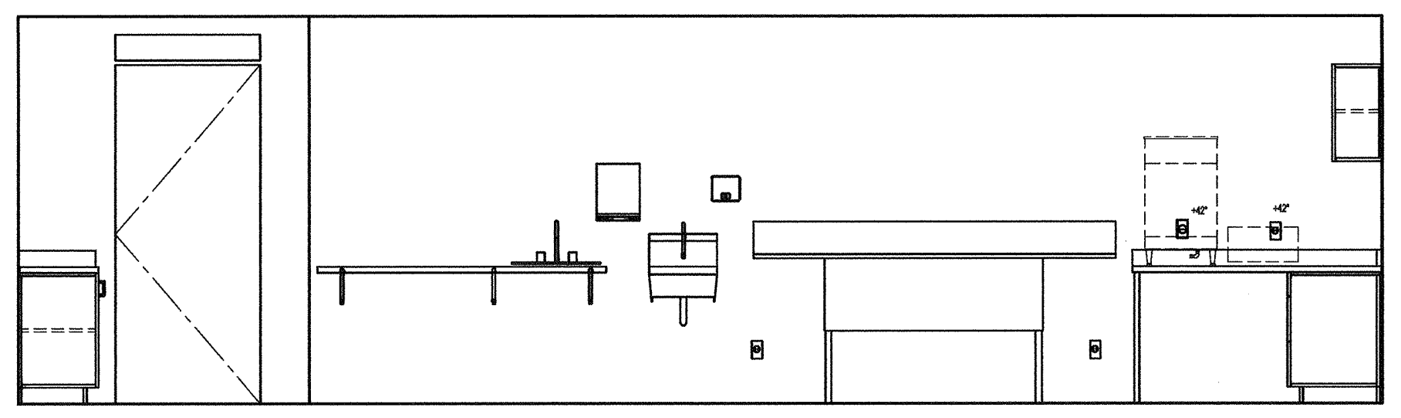
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 8



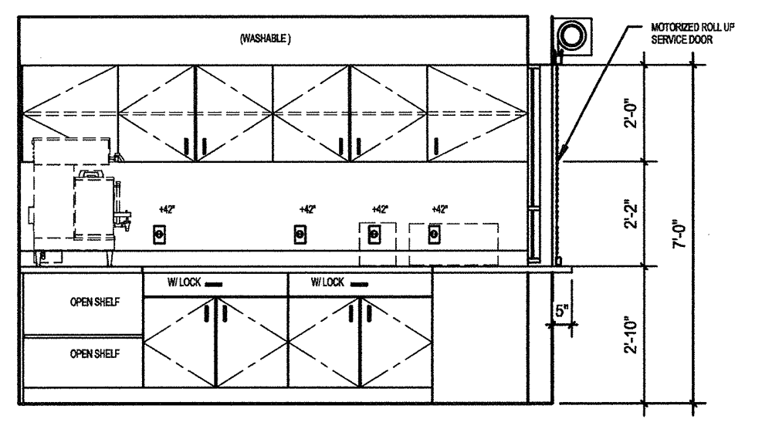
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 1



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 2



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 3



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 4

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SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

INTERIOR ELEVATIONS
WALL MOUNTED

C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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A 03 117117
AC FLS SS
Date FEB 0 3 2017

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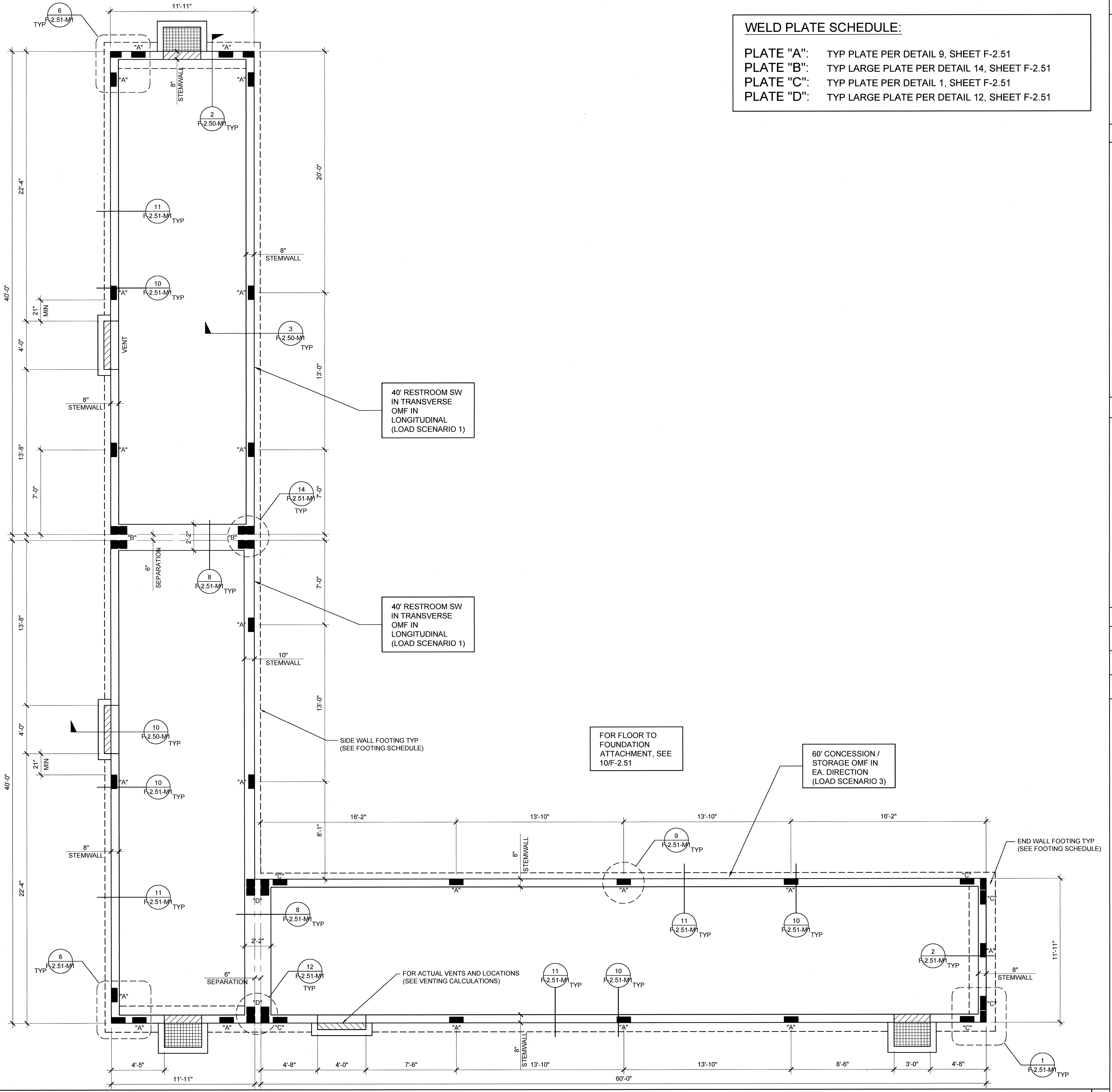
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER
A-6.01-M1

WELD PLATE SCHEDULE:

PLATE "A":	TYP PLATE PER DETAIL 9, SHEET F-2.51
PLATE "B":	TYP LARGE PLATE PER DETAIL 14, SHEET F-2.51
PLATE "C":	TYP PLATE PER DETAIL 1, SHEET F-2.51
PLATE "D":	TYP LARGE PLATE PER DETAIL 12, SHEET F-2.51



FOUNDATION PLAN

SCALE: 1/4" = 1' - 0" 1

VENTING SCHEDULE

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.3.2(2).
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (> 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); ATTACH VAPOR RETARDER TO BOTTOM PLATES; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.

VENTING CALCULATION:

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

12' x 40' BUILDING: 12' x 40' = 480 SF / 150 = 3.2 SF VENT. REQ'D

D
C
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
5.84 SF TOTAL VENTILATION (> 3.2 SF)

12' x 60' BUILDING: 12' x 60' = 720 SF / 150 = 4.8 SF VENT. REQ'D

D
C
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
5.84 SF TOTAL VENTILATION (> 4.8 SF)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	
100 PSF FOR 12x60. 12x40 RESTROOMS	12" WIDE (2) #5 CONT T & B	20" WIDE (4) #5 CONT T & B	
125 PSF FOR 12x60 CONCESSION / STORAGE	12" WIDE (2) #5 CONT T & B	20" WIDE (4) #5 CONT T & B	

12x40 BUILDINGS:
SHEAR WALL ALONG THE END (TRANSVERSE) WALLS
MOMENT FRAMES ALONG THE SIDE (LONGITUDINAL) WALL
LOAD SCENARIO 1

12x60 BUILDING CONCESSION BUILDINGS:
LS3 -- OMF IN EACH DIRECTION

12x60 RESTROOM BUILDINGS:
LS2 -- OMF IN LONGITUDINAL (SIDEWALL) DIRECTION, SW IN TRANSVERSE (ENDWALL) DIRECTION

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SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

CONCRETE
FOUNDATION PLAN
BELOW GRADE CONC.
CONCRETE FLOOR

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS ✓ SS ✓
Date FEB 0 3 2017

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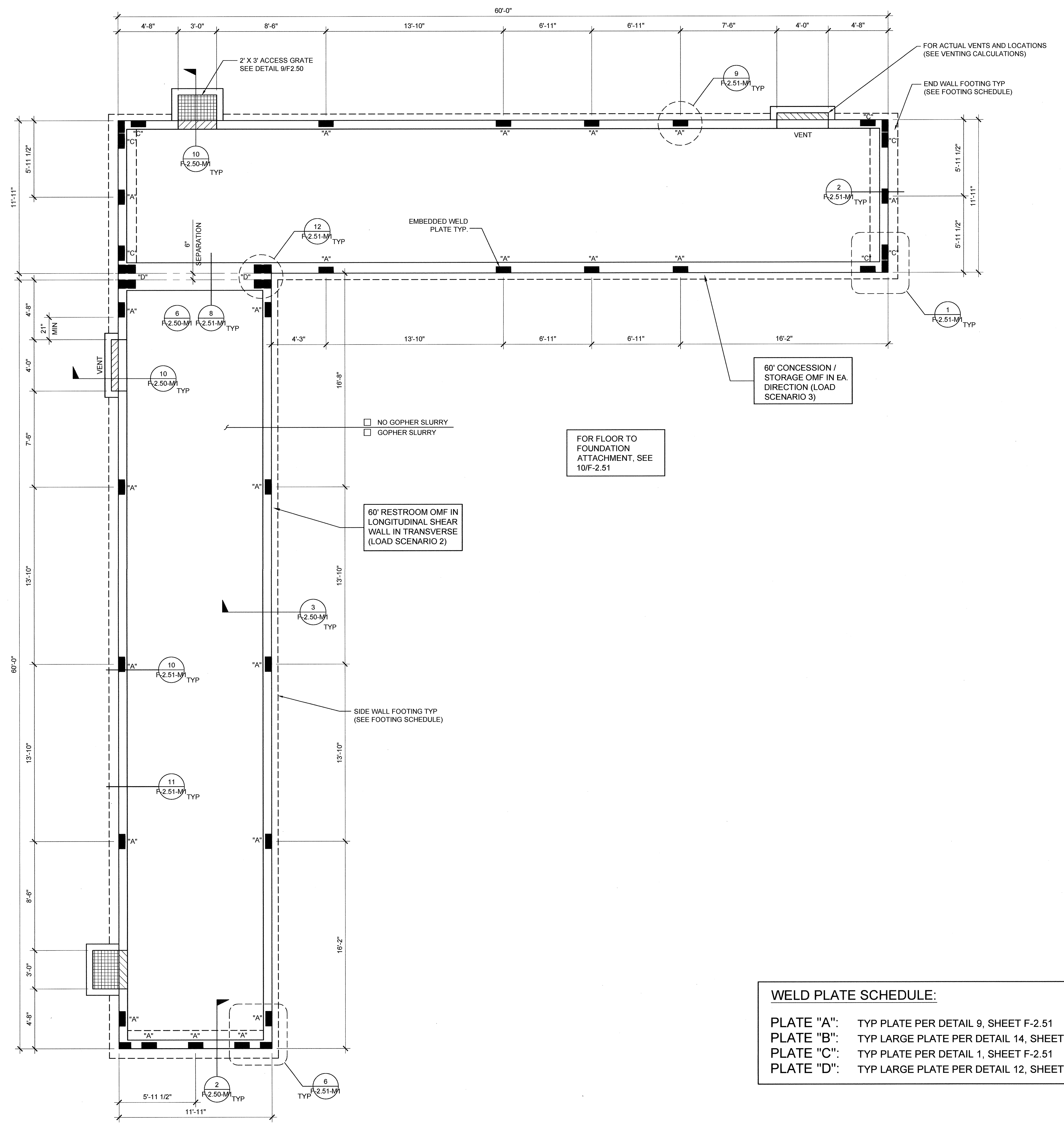
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

F-2.11-M1



WELD PLATE SCHEDULE:

PLATE "A":	TYP PLATE PER DETAIL 9, SHEET F-2.51
PLATE "B":	TYP LARGE PLATE PER DETAIL 14, SHEET F-2.51
PLATE "C":	TYP PLATE PER DETAIL 1, SHEET F-2.51
PLATE "D":	TYP LARGE PLATE PER DETAIL 12, SHEET F-2.51

FOUNDATION PLAN

SCALE: 1/4" = 1' - 0" 1

VENTING SCHEDULE

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.3.2(2).
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (> 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); ATTACH VAPOR RETARDER TO BOTTOM PLATES; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.

VENTING CALCULATION:

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

12' x 40' BUILDING: 12' x 40' = 480 SF / 150 = 3.2 SF VENT. REQ'D

D
C

1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
5.84 SF TOTAL VENTILATION (> 3.2 SF)

12' x 60' BUILDING: 12' x 60' = 720 SF / 150 = 4.8 SF VENT. REQ'D

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C

1 - "C" VENT = 1.59 SF
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5.84 SF TOTAL VENTILATION (> 4.8 SF)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	
100 PSF FOR 12x60. 12x40 RESTROOMS	12" WIDE (2) #5 CONT T & B	20" WIDE (4) #5 CONT T & B	
125 PSF FOR 12x60 CONCESSION / STORAGE	12" WIDE (2) #5 CONT T & B	20" WIDE (4) #5 CONT T & B	

12x40 BUILDINGS:
SHEAR WALL ALONG THE END (TRANSVERSE) WALLS
MOMENT FRAMES ALONG THE SIDE (LONGITUDINAL) WALL
LOAD SCENARIO 1

12x60 BUILDING CONCESSION BUILDINGS:
LS3 -- OMF IN EACH DIRECTION

12x60 RESTROOM BUILDINGS:
LS2 -- OMF IN LONGITUDINAL (SIDEWALL) DIRECTION, SW IN TRANSVERSE (ENDWALL) DIRECTION

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EL MONTE UNIFIED SCHOOL DISTRICT
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SHEET TITLE:
CONCRETE
FOUNDATION PLAN
BELOW GRADE CONC.
CONCRETE FLOOR

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
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SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

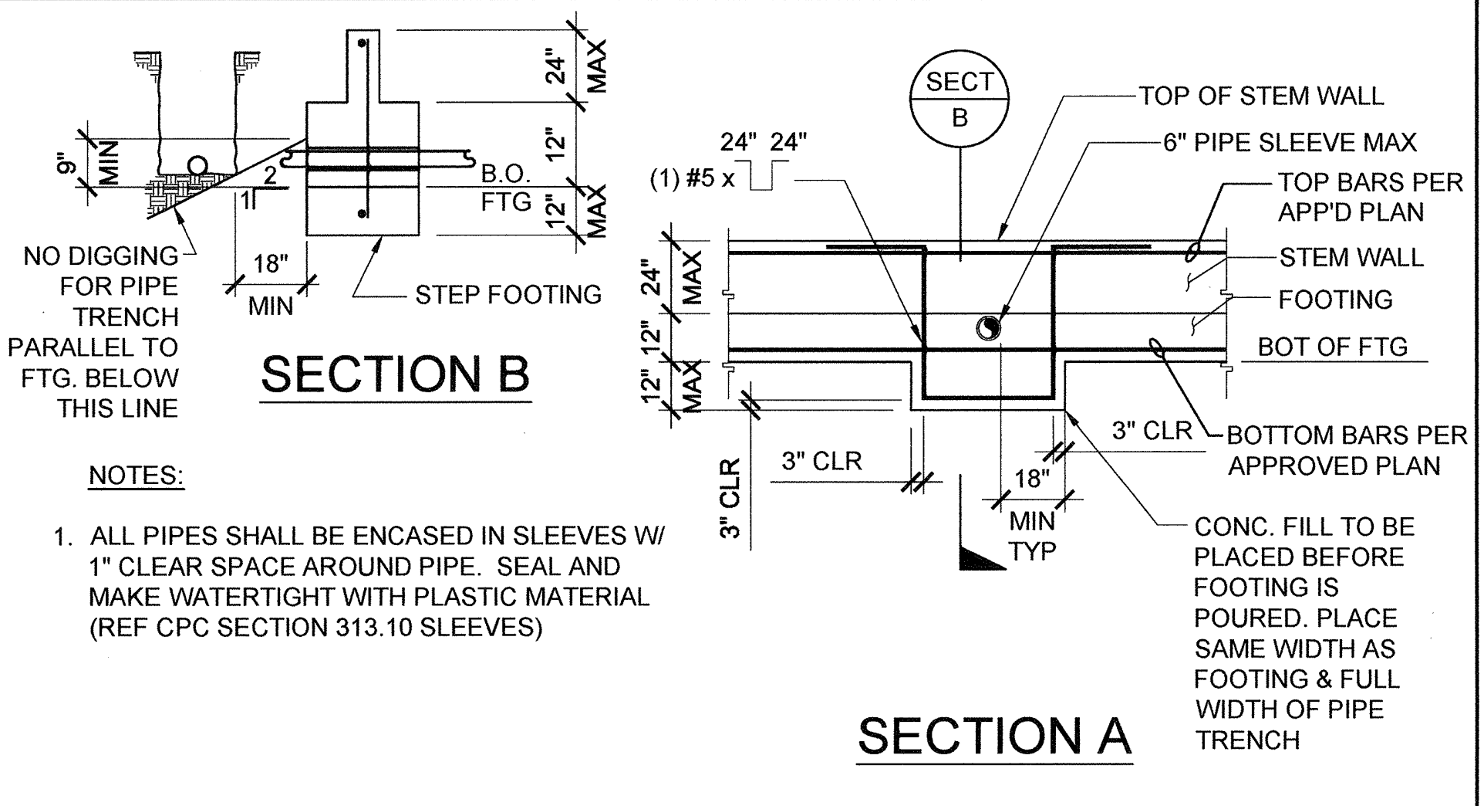
SHEET NUMBER
F-2.12-M1

NOT USED 16

NOT USED 11

NOT USED 6

NOT USED 1



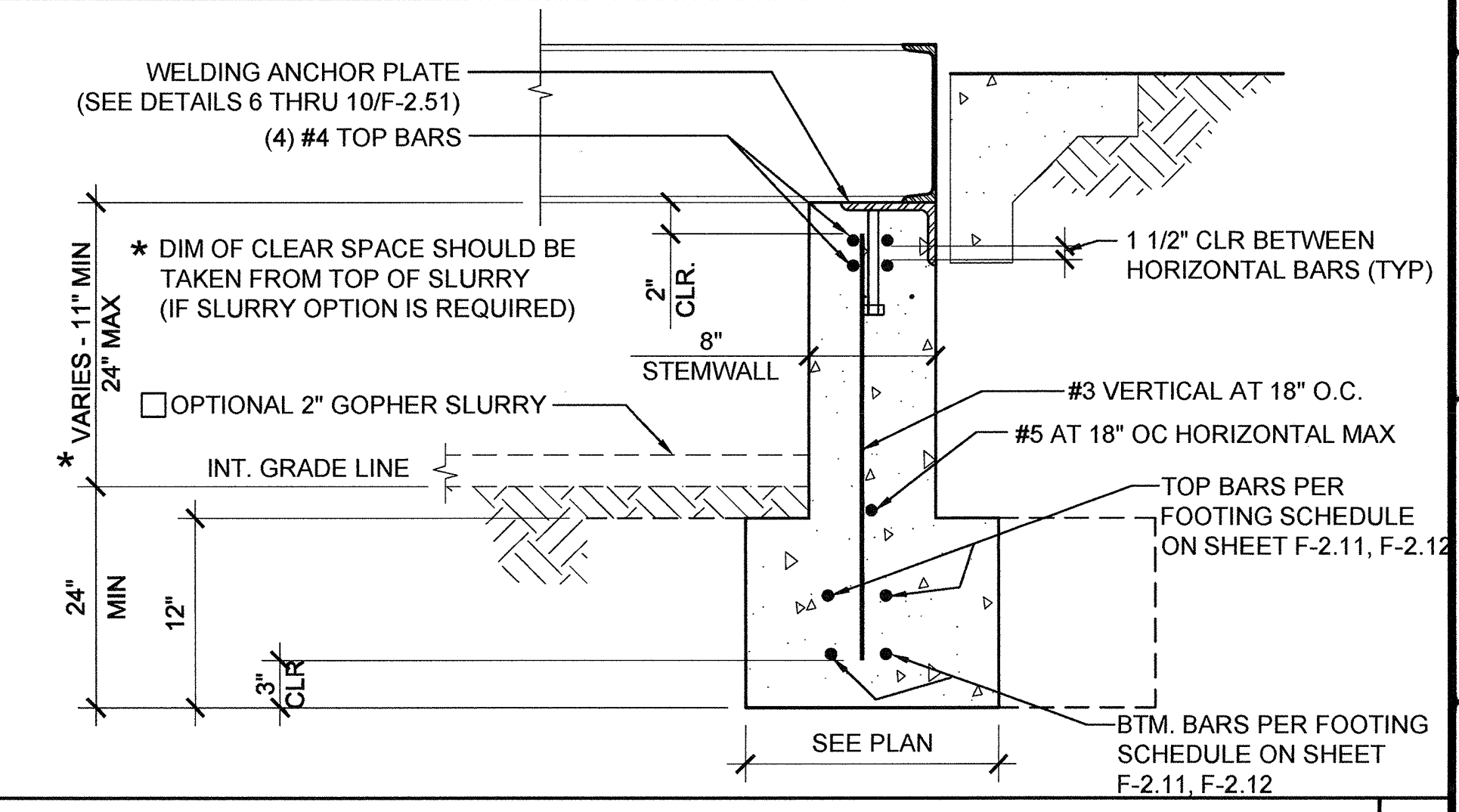
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

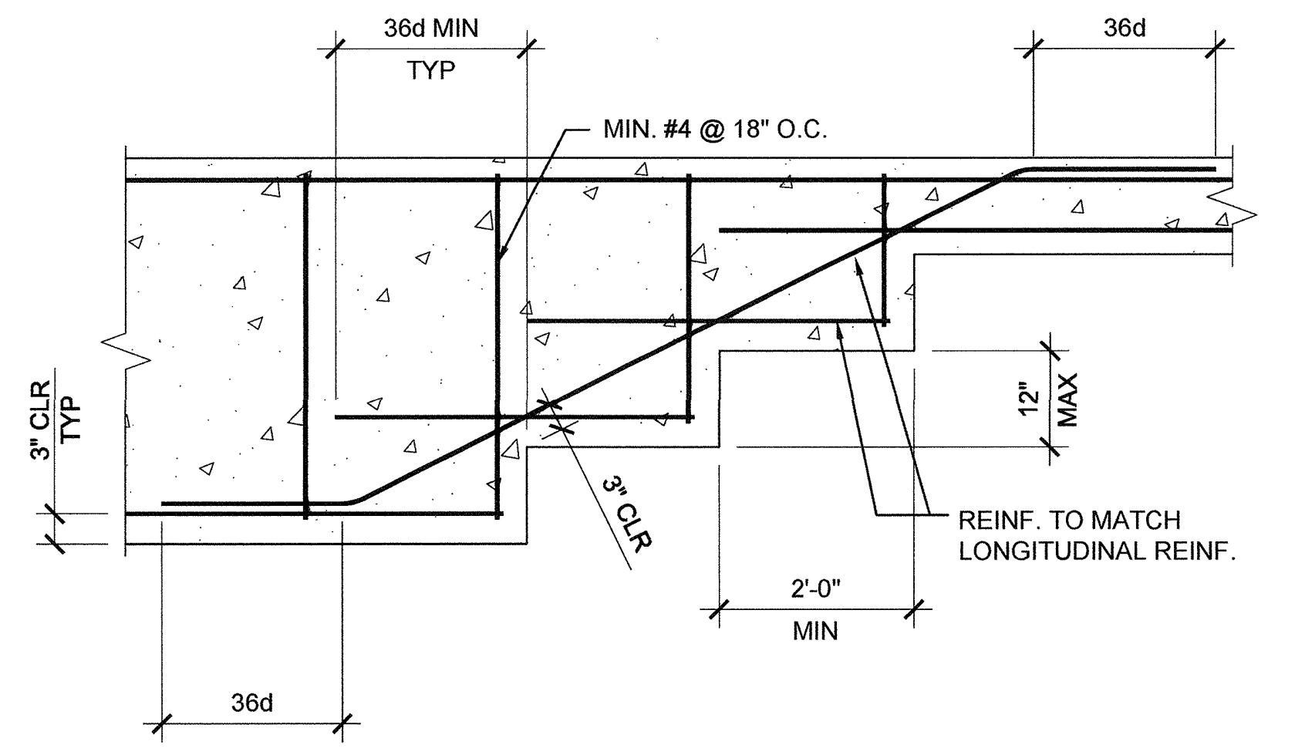
PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17

NOT USED 12

NOT USED 7


WELDING ANCHOR PLATE (SEE DETAILS 6 THRU 10/F-2.51)
(4) #4 TOP BARS
* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)
* VARIES - 11" MIN 24" MAX
2" CLR.
8" STEMWALL
☐ OPTIONAL 2" GOPHER SLURRY
INT. GRADE LINE
1 1/2" CLR BETWEEN HORIZONTAL BARS (TYP)
#3 VERTICAL AT 18" O.C.
#5 AT 18" OC HORIZONTAL MAX
TOP BARS PER FOOTING SCHEDULE ON SHEET F-2.11, F-2.12
24" MIN
12"
3" CLR
SEE PLAN
BTM. BARS PER FOOTING SCHEDULE ON SHEET F-2.11, F-2.12

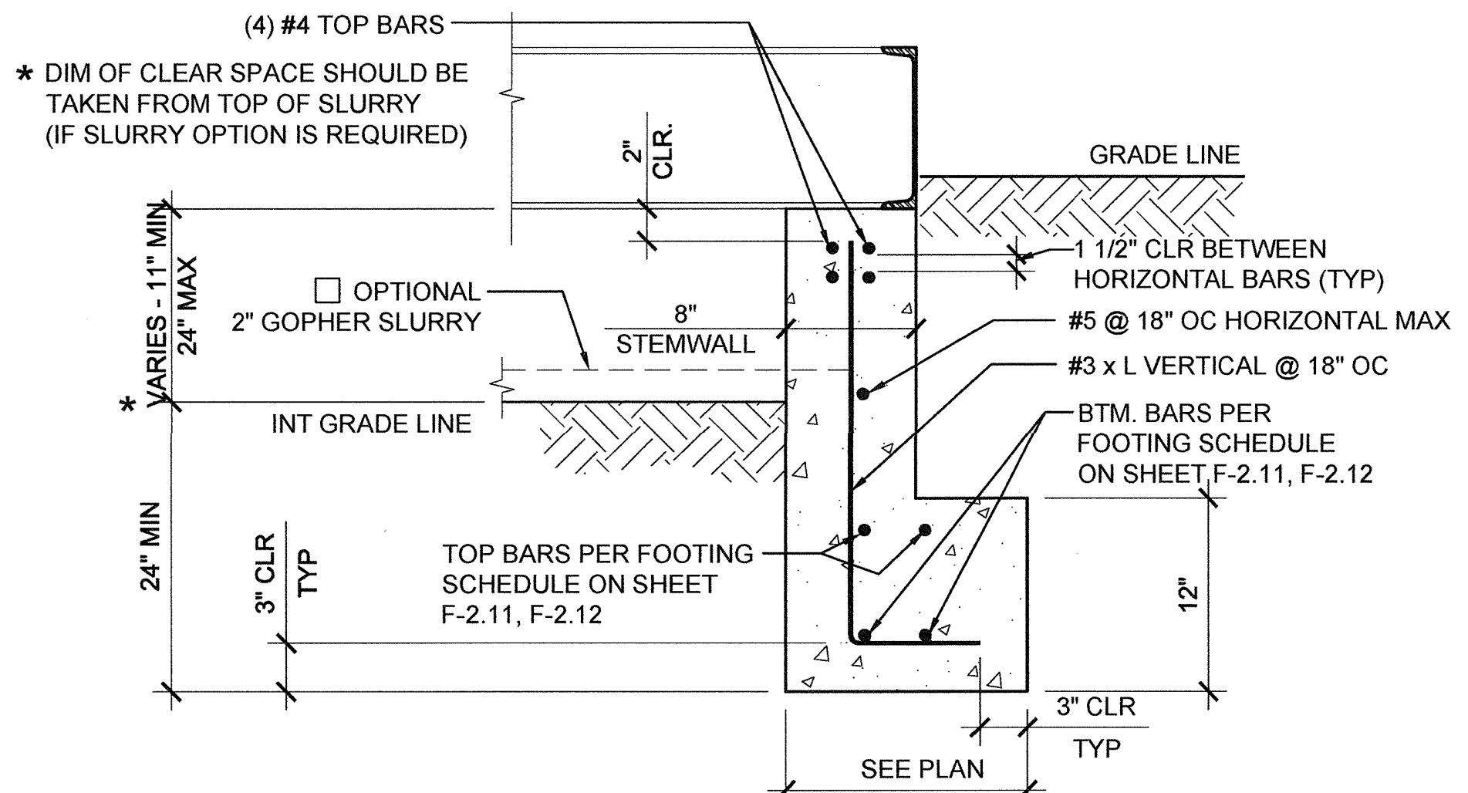
END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



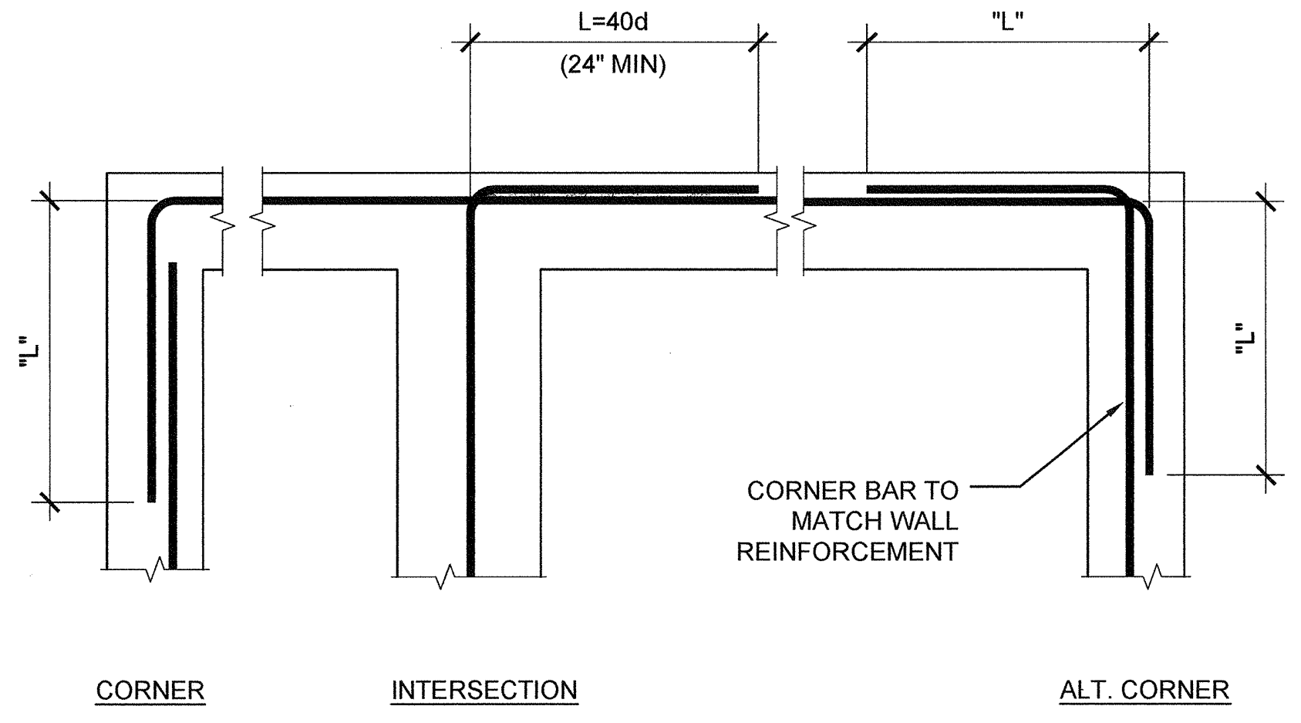
TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18

NOT USED 13

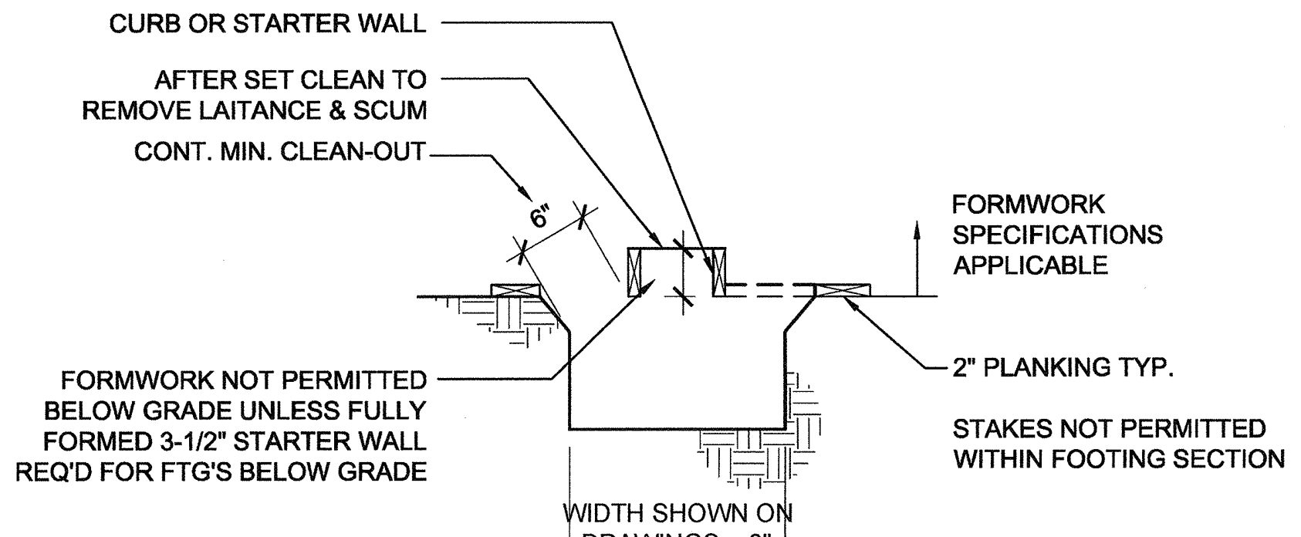
NOT USED 8


(4) #4 TOP BARS
* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)
2" CLR.
GRADE LINE
1 1/2" CLR BETWEEN HORIZONTAL BARS (TYP)
☐ OPTIONAL 2" GOPHER SLURRY
8" STEMWALL
#5 @ 18" OC HORIZONTAL MAX
#3 x L VERTICAL @ 18" OC
* VARIES - 11" MIN 24" MAX
INT GRADE LINE
BTM. BARS PER FOOTING SCHEDULE ON SHEET F-2.11, F-2.12
24" MIN
3" CLR TYP
TOP BARS PER FOOTING SCHEDULE ON SHEET F-2.11, F-2.12
12"
3" CLR TYP
SEE PLAN

SIDE WALL FOOTING SCALE : 1" = 1'-0" 3

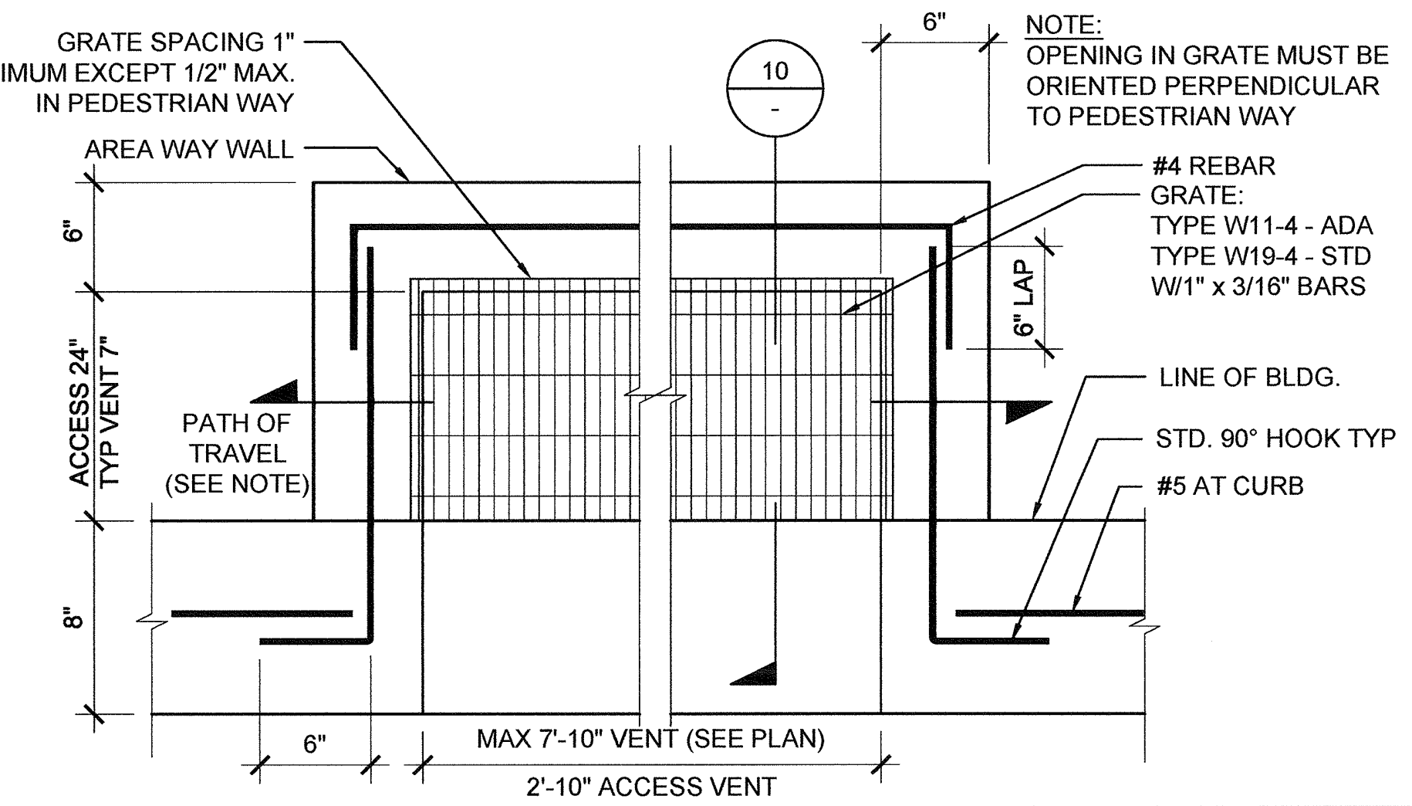


TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19


CURB OR STARTER WALL
AFTER SET CLEAN TO REMOVE LAITANCE & SCUM
CONT. MIN. CLEAN-OUT
6"
FORMWORK SPECIFICATIONS APPLICABLE
FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED 3-1/2" STARTER WALL REQ'D FOR FTG'S BELOW GRADE
2" PLANKING TYP.
STAKES NOT PERMITTED WITHIN FOOTING SECTION
WIDTH SHOWN ON DRAWINGS + 2"

"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14


GRATE SPACING 1" MAXIMUM EXCEPT 1/2" MAX. IN PEDESTRIAN WAY
AREA WAY WALL
10
-
6"
#4 REBAR
GRATE: TYPE W11-4 - ADA TYPE W19-4 - STD W/1" x 3/16" BARS
6"
ACCESS 24" TYP VENT 7"
6" LAP
PATH OF TRAVEL (SEE NOTE)
LINE OF BLDG.
STD. 90° HOOK TYP
#5 AT CURB
8"
6"
MAX 7'-10" VENT (SEE PLAN)
2'-10" ACCESS VENT

NOTE:
OPENING IN GRATE MUST BE ORIENTED PERPENDICULAR TO PEDESTRIAN WAY

VENT SCALE : 1 1/2" = 1'-0" 9

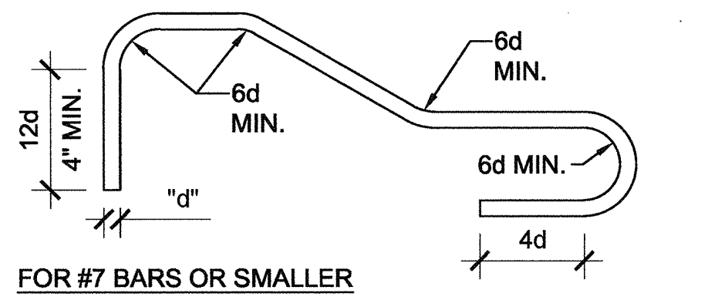
NOT USED 4

STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER(a)
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

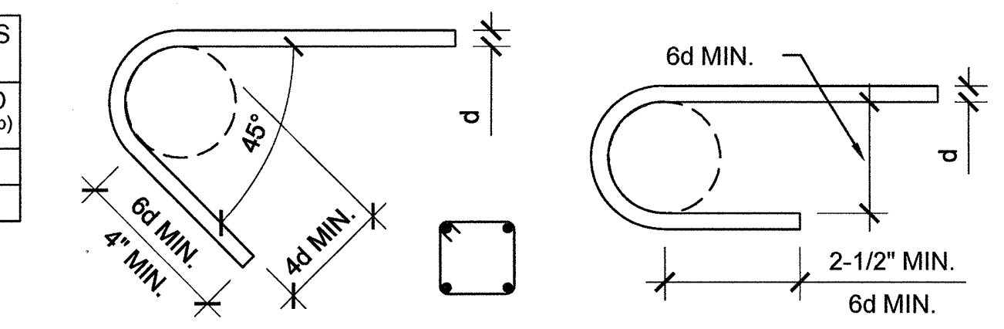
(a) MEASURED ON INSIDE OF BAR

STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER(b)
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

(b) MEASURED ON INSIDE OF BAR

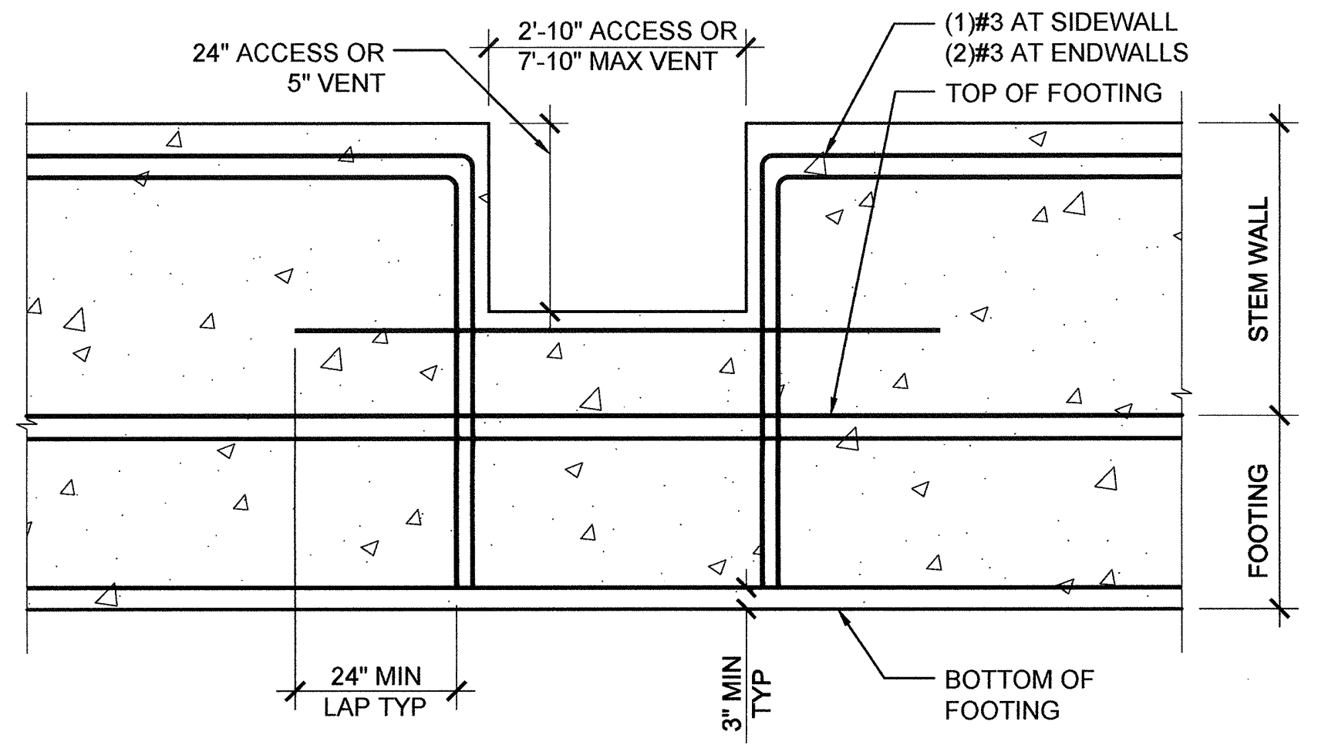


FOR #7 BARS OR SMALLER
TYP. REINF. BENDING DETAIL



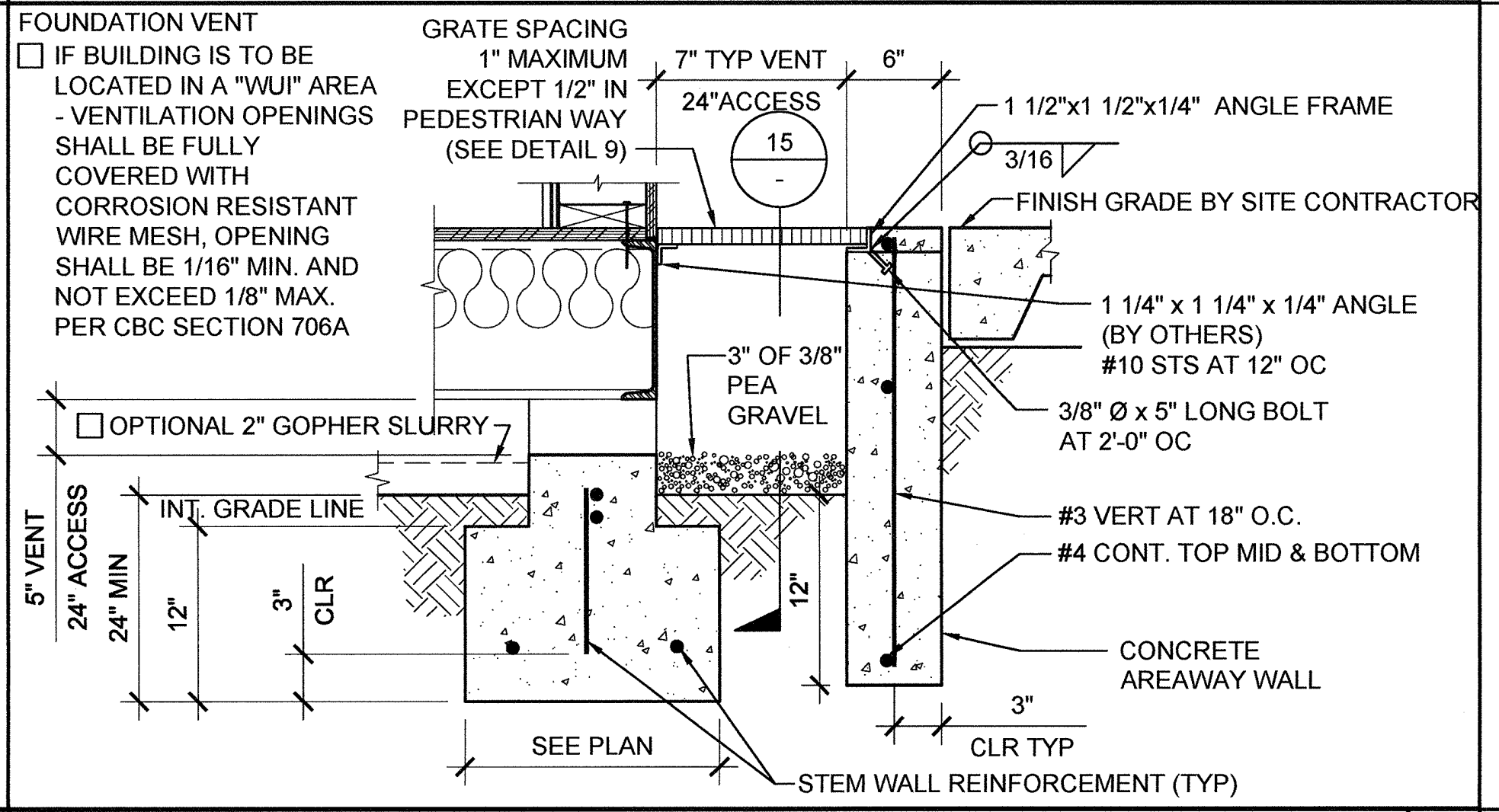
STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

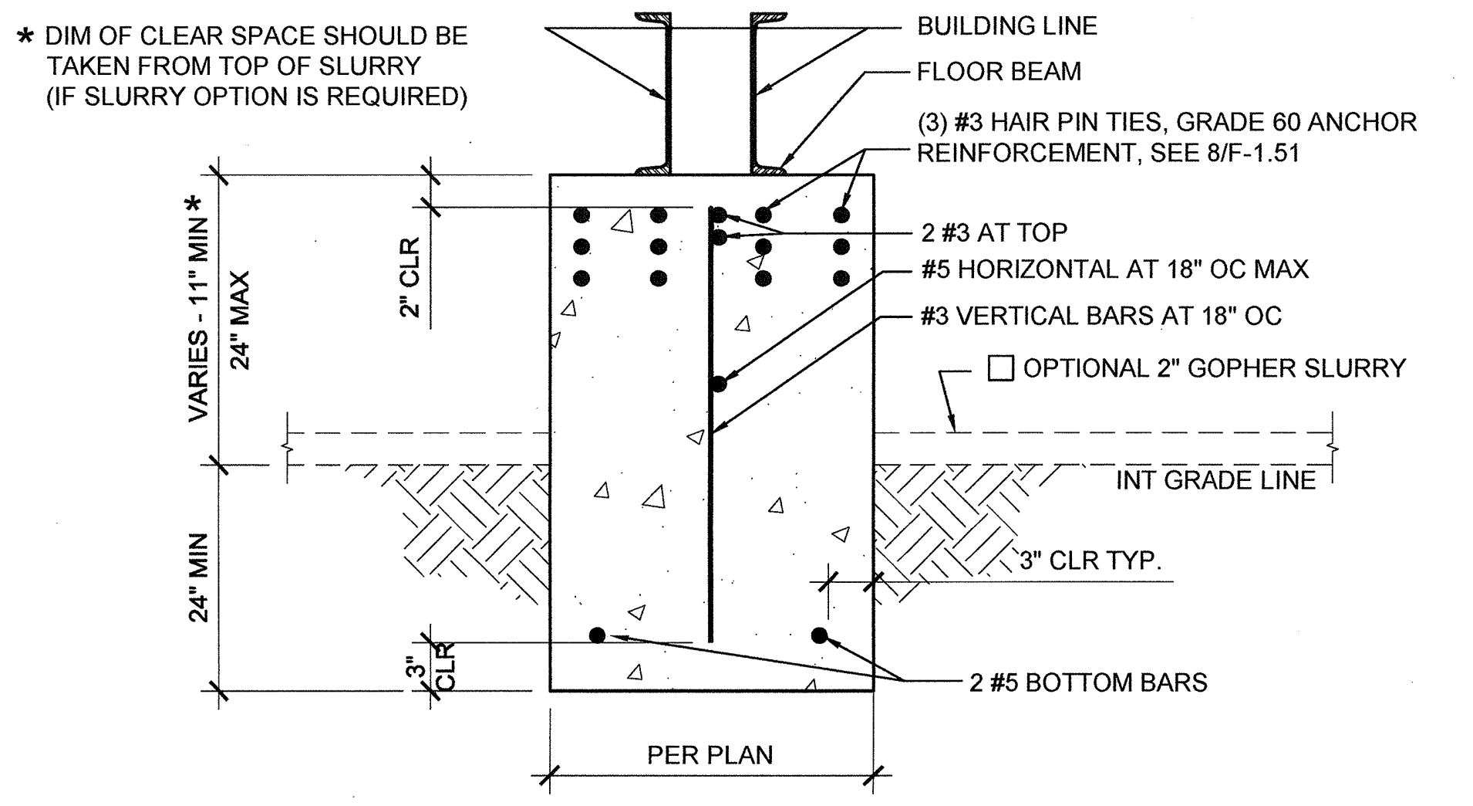


VENT OPENING SCALE : 1" = 1'-0" 15

FOUNDATION VENT
☐ IF BUILDING IS TO BE LOCATED IN A "WUI" AREA - VENTILATION OPENINGS SHALL BE FULLY COVERED WITH CORROSION RESISTANT WIRE MESH, OPENING SHALL BE 1/16" MIN. AND NOT EXCEED 1/8" MAX. PER CBC SECTION 706A


GRATE SPACING 1" MAXIMUM EXCEPT 1/2" IN PEDESTRIAN WAY (SEE DETAIL 9)
7" TYP VENT
24"ACCESS
6"
15
-
1 1/2"x1 1/2"x1/4" ANGLE FRAME
3/16
FINISH GRADE BY SITE CONTRACTOR
1 1/4" x 1 1/4" x 1/4" ANGLE (BY OTHERS) #10 STS AT 12" OC
3" OF 3/8" PEA GRAVEL
3/8" Ø x 5" LONG BOLT AT 2'-0" OC
☐ OPTIONAL 2" GOPHER SLURRY
INT. GRADE LINE
5" VENT
24" ACCESS
24" MIN
12"
3" CLR
12"
#3 VERT AT 18" O.C.
#4 CONT. TOP MID & BOTTOM
CONCRETE AREAWAY WALL
3" CLR TYP
SEE PLAN
STEM WALL REINFORCEMENT (TYP)

VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10


* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)
BUILDING LINE
FLOOR BEAM
(3) #3 HAIR PIN TIES, GRADE 60 ANCHOR REINFORCEMENT, SEE 8/F-1.51
2 #3 AT TOP
#5 HORIZONTAL AT 18" OC MAX
#3 VERTICAL BARS AT 18" OC
☐ OPTIONAL 2" GOPHER SLURRY
VARIES - 11" MIN * 24" MAX
2" CLR
INT GRADE LINE
3" CLR TYP.
24" MIN
3" CLR
2 #5 BOTTOM BARS
PER PLAN

INTERIOR RETURN FOOTING AT SEPARATION SCALE : 1" = 1'-0" 5

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
CONCRETE FOUNDATION DETAILS
BELOW GRADE

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS ✓ SS
Date FEB 0 3 2017

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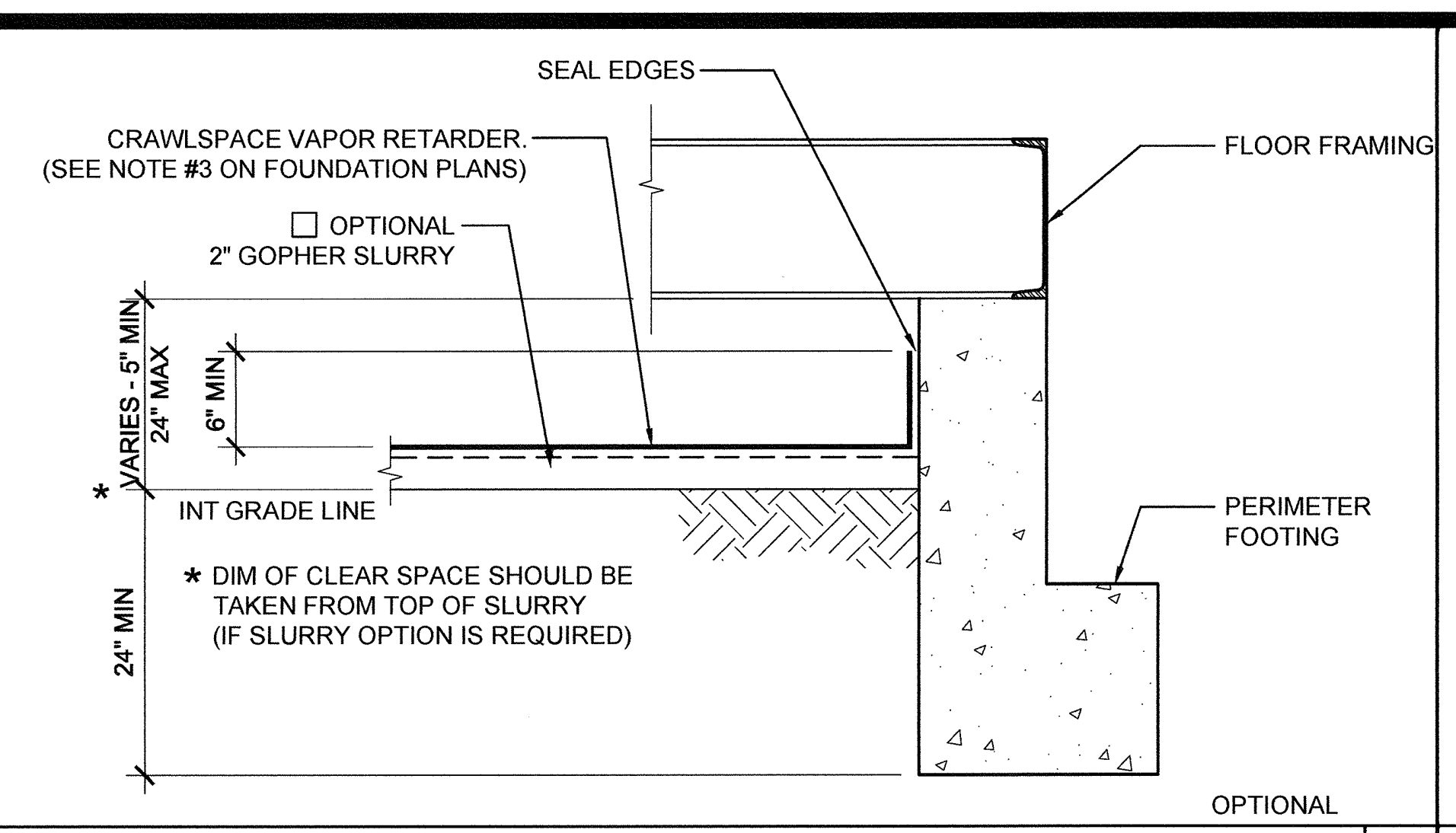
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

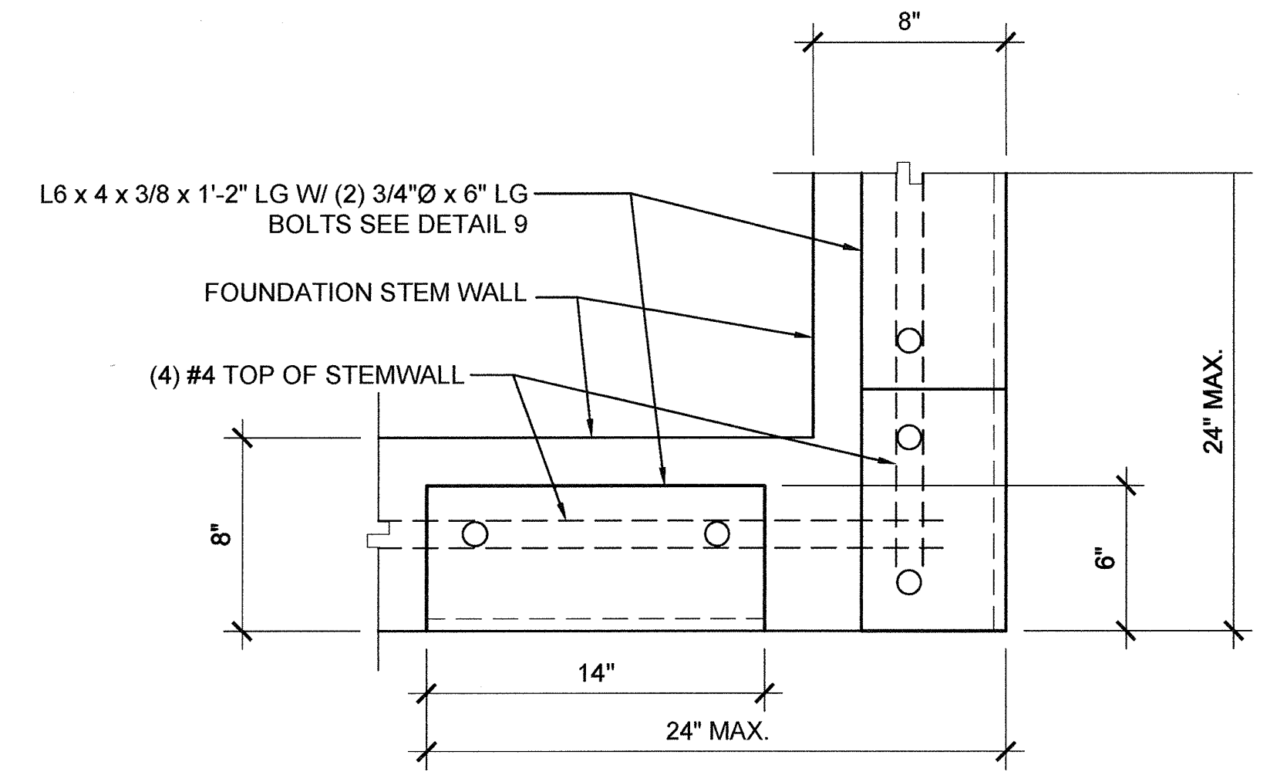
SHEET NUMBER
F-2.50-M1

NOT USED 16

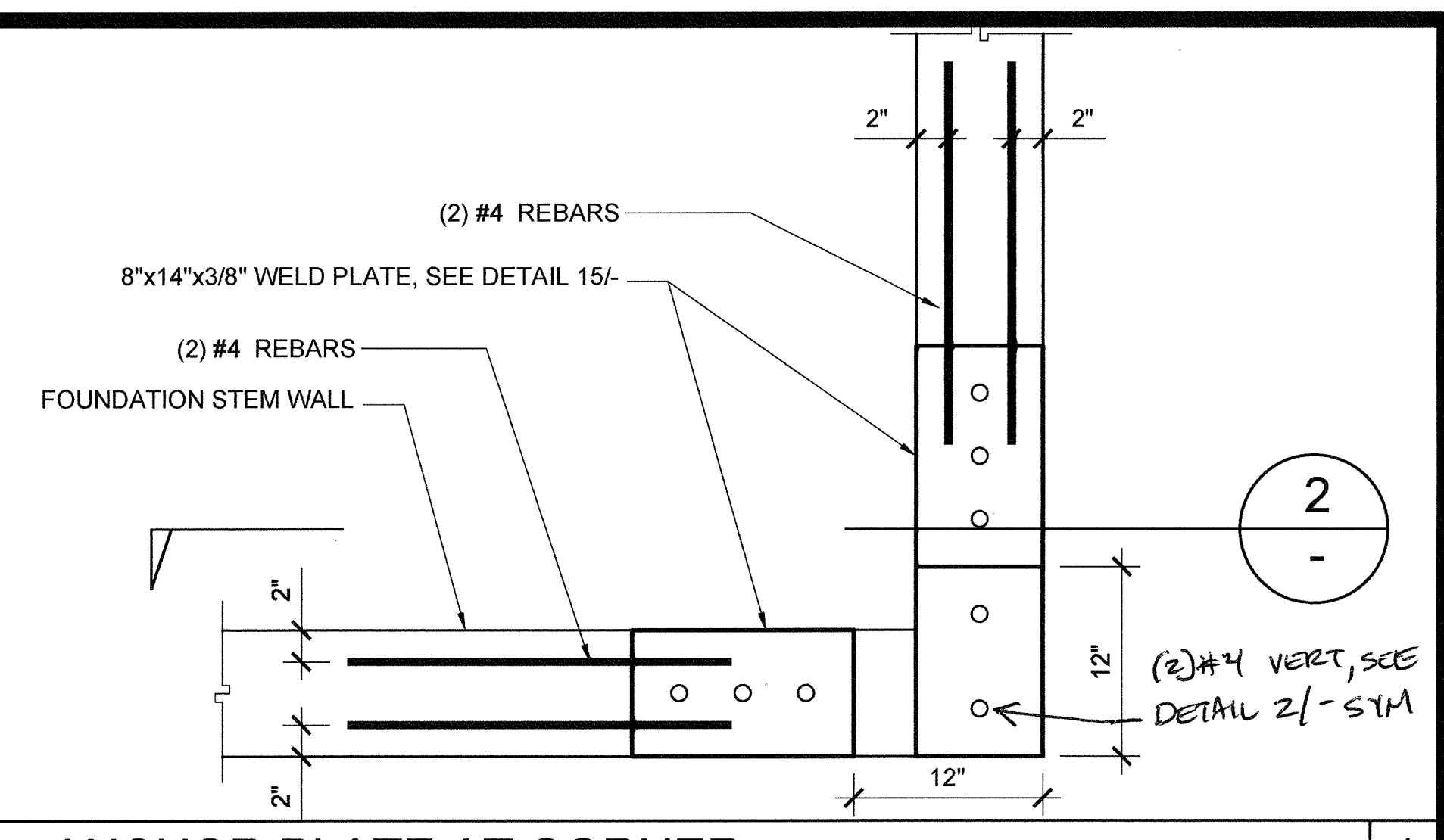


* DIM OF CLEAR SPACE SHOULD BE TAKEN FROM TOP OF SLURRY (IF SLURRY OPTION IS REQUIRED)

CRAWLSPACE VAPOR RETARDER SCALE : 1" = 1'-0" 11

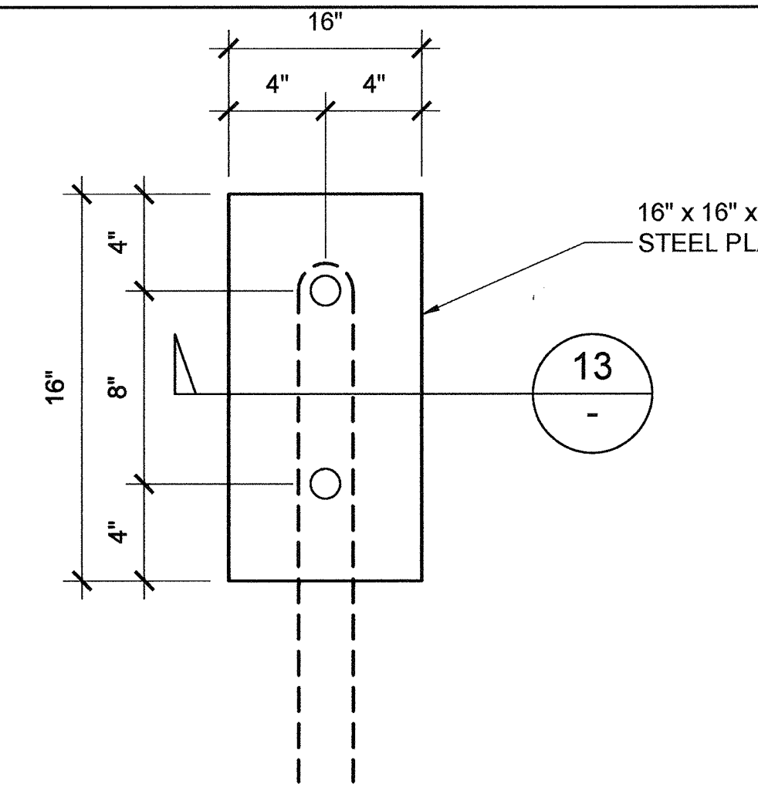


ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6



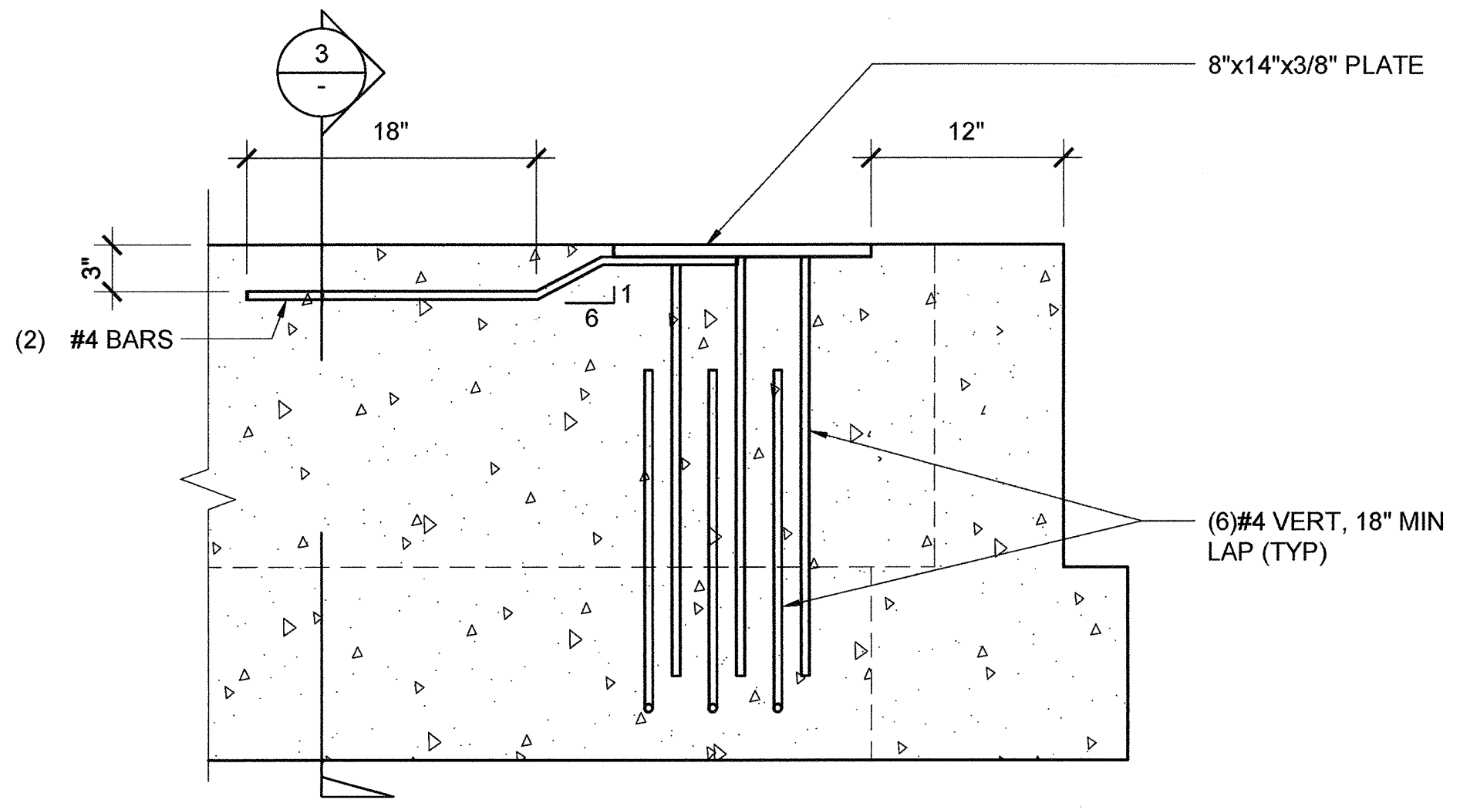
ANCHOR PLATE AT CORNER SCALE : 1" = 1'-0" 1

NOT USED 17



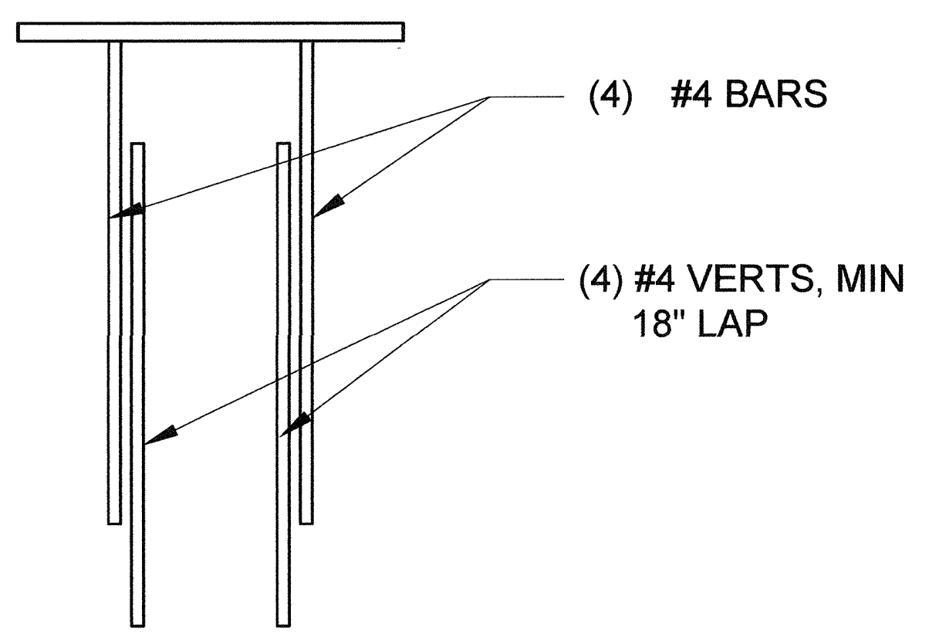
LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S. 12

NOT USED 7

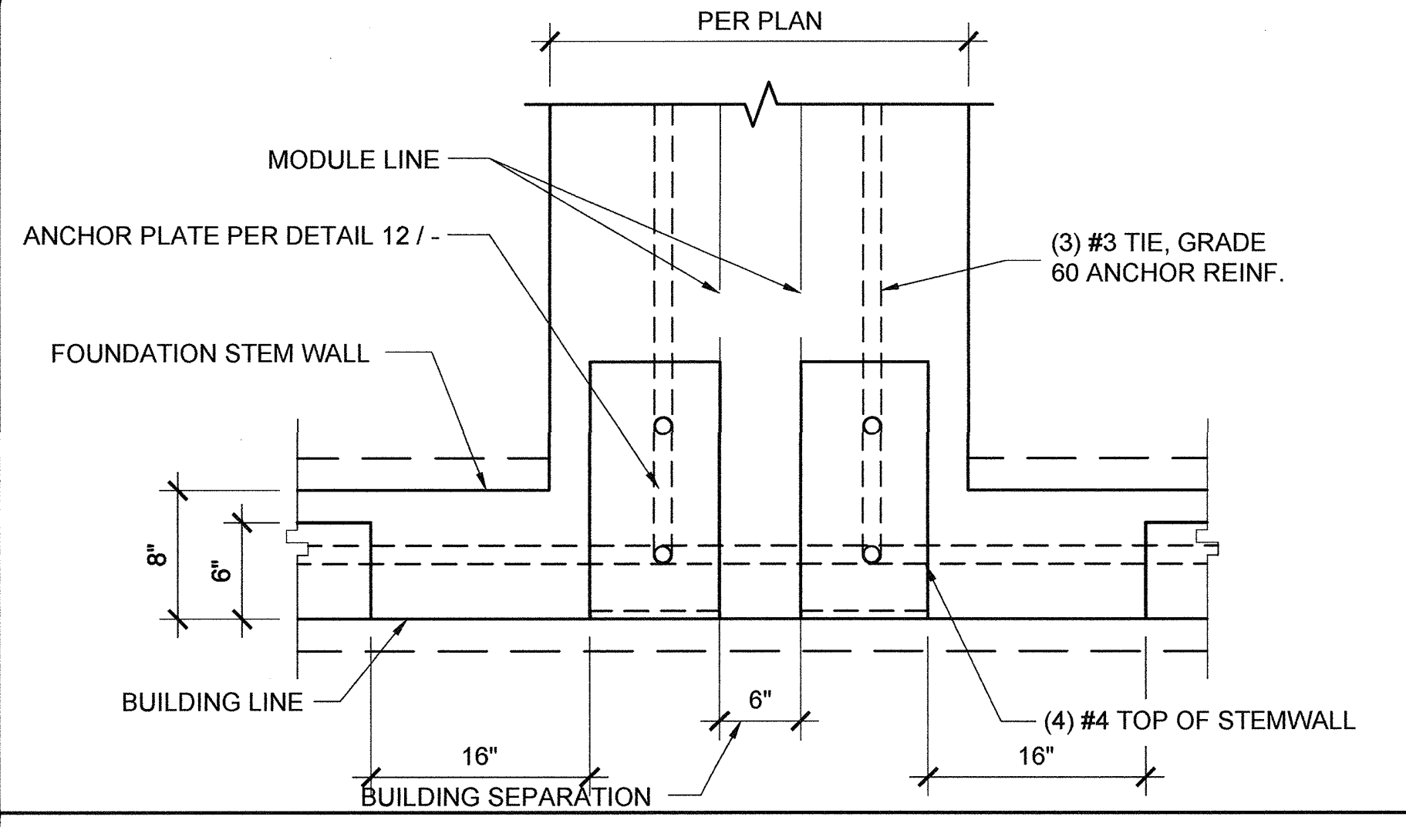


FOUNDATION SECTION SCALE : 1" = 1'-0" 2

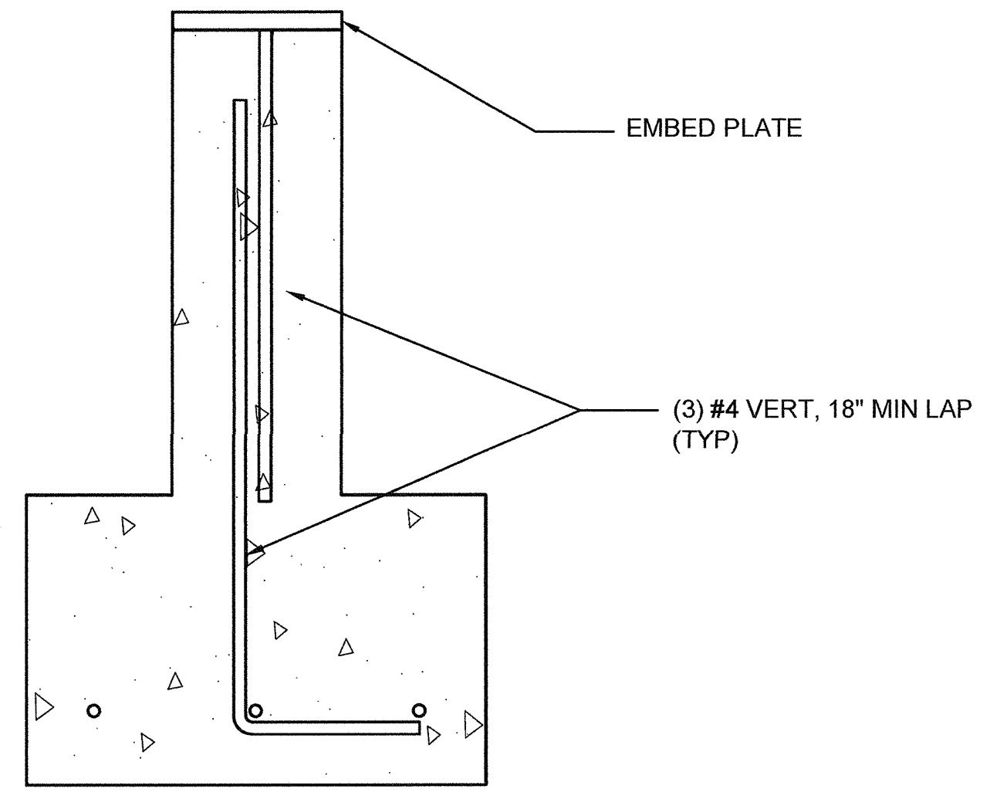
NOT USED 18



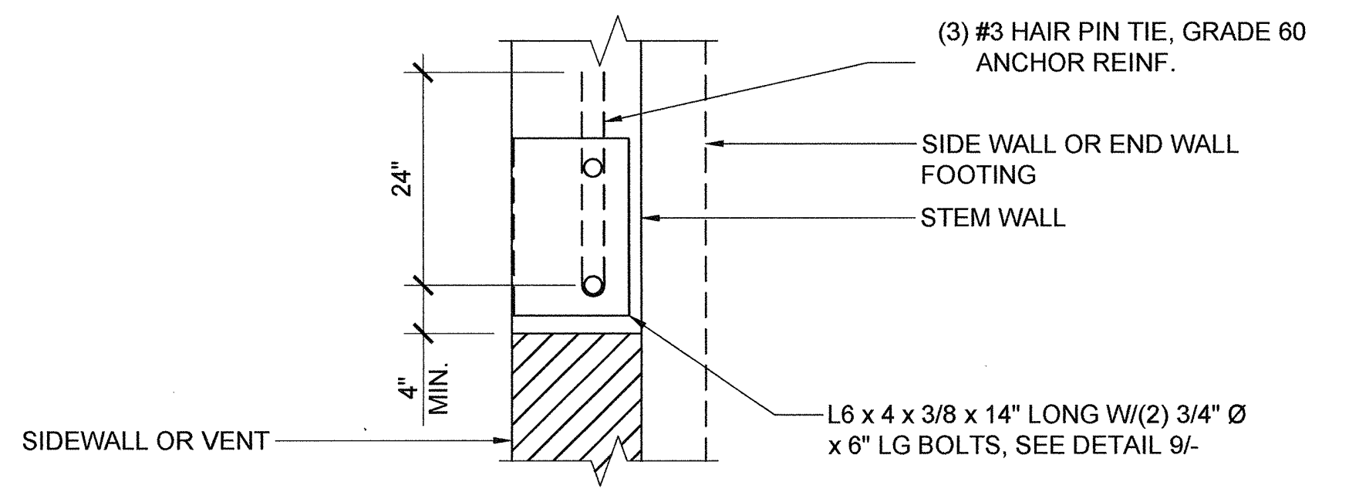
ANCHOR PLATE SECTION SCALE : 1 1/2" = 1'-0" 13



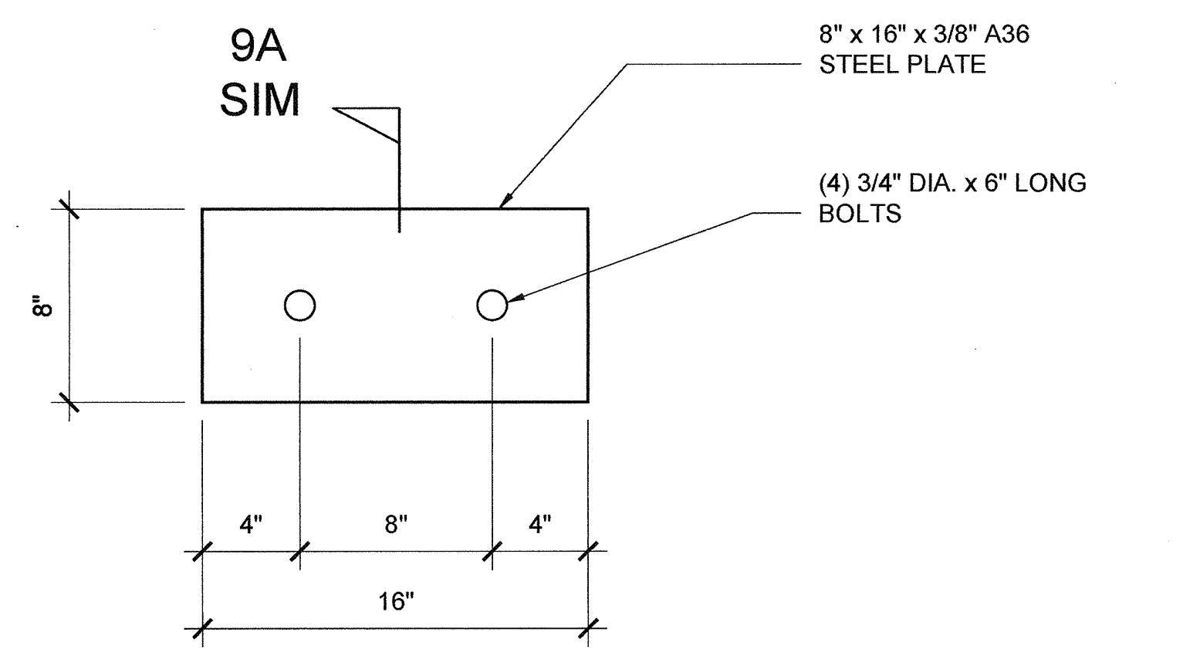
ANCHOR PLATE AT SEPARATION SCALE : 1" = 1'-0" 8



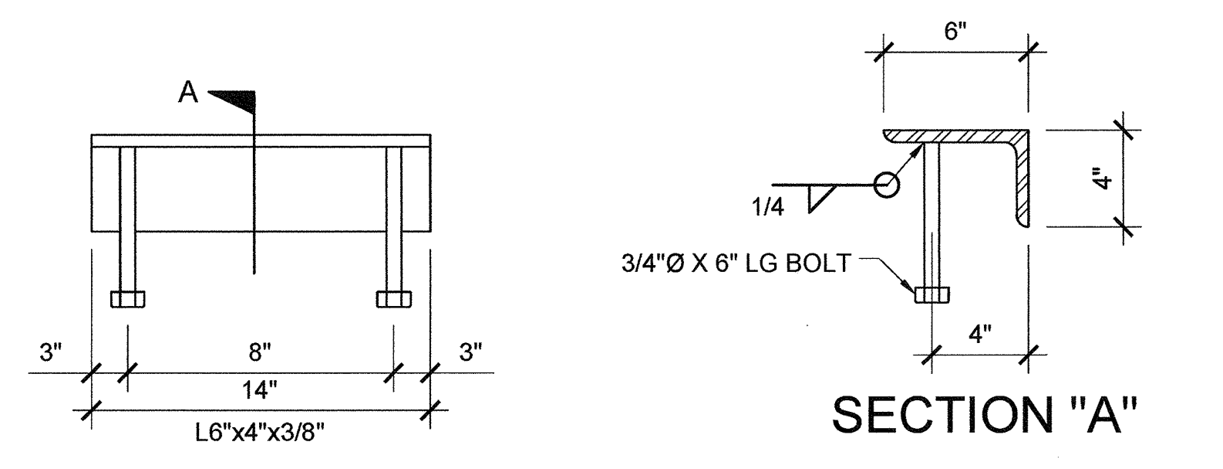
FOUNDATION SECTION SCALE : 1 1/2" = 1'-0" 3


(3) #3 HAIR PIN TIE, GRADE 60
ANCHOR REINF.
SIDE WALL OR END WALL
FOOTING
STEM WALL
24"
4"
MIN.
SIDEWALL OR VENT
L6 x 4 x 3/8 x 14" LONG W/(2) 3/4" Ø
x 6" LG BOLTS, SEE DETAIL 9/-

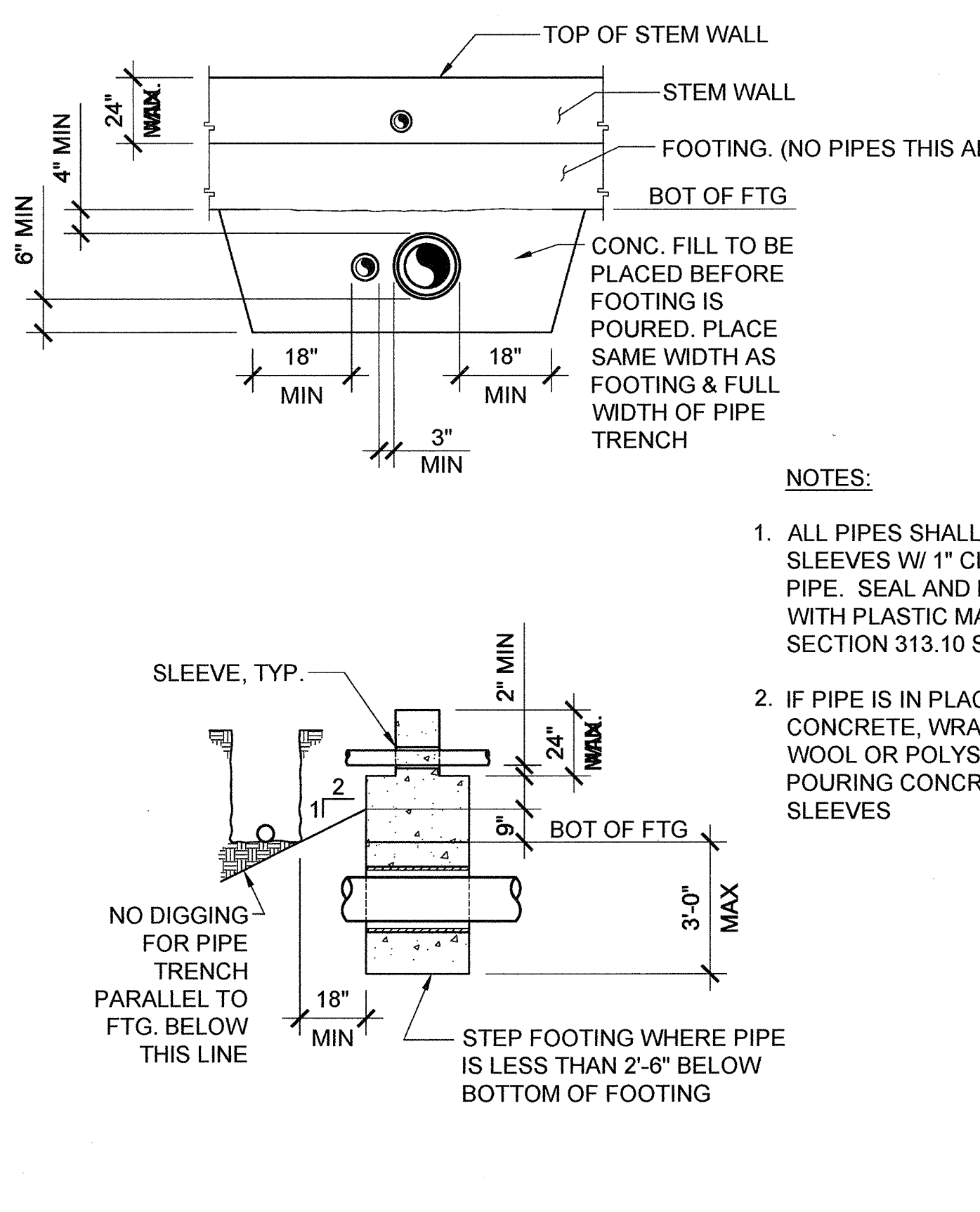
ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 19



LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S. 14

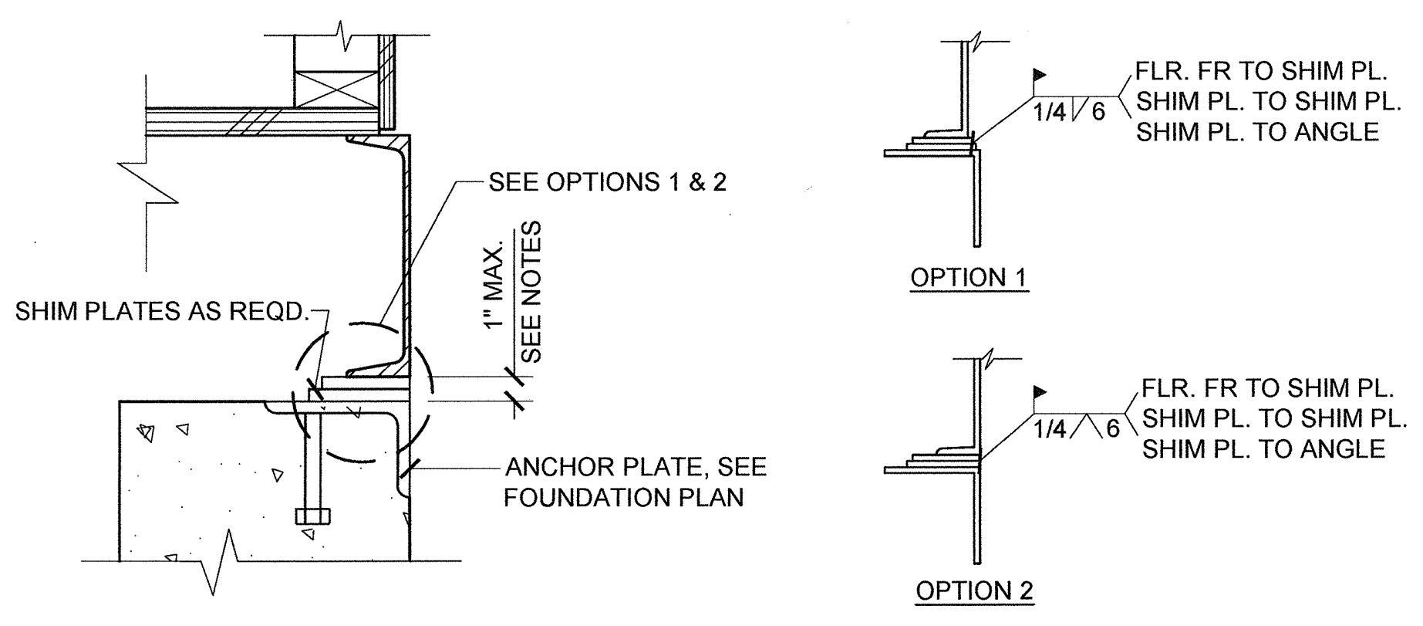


WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9



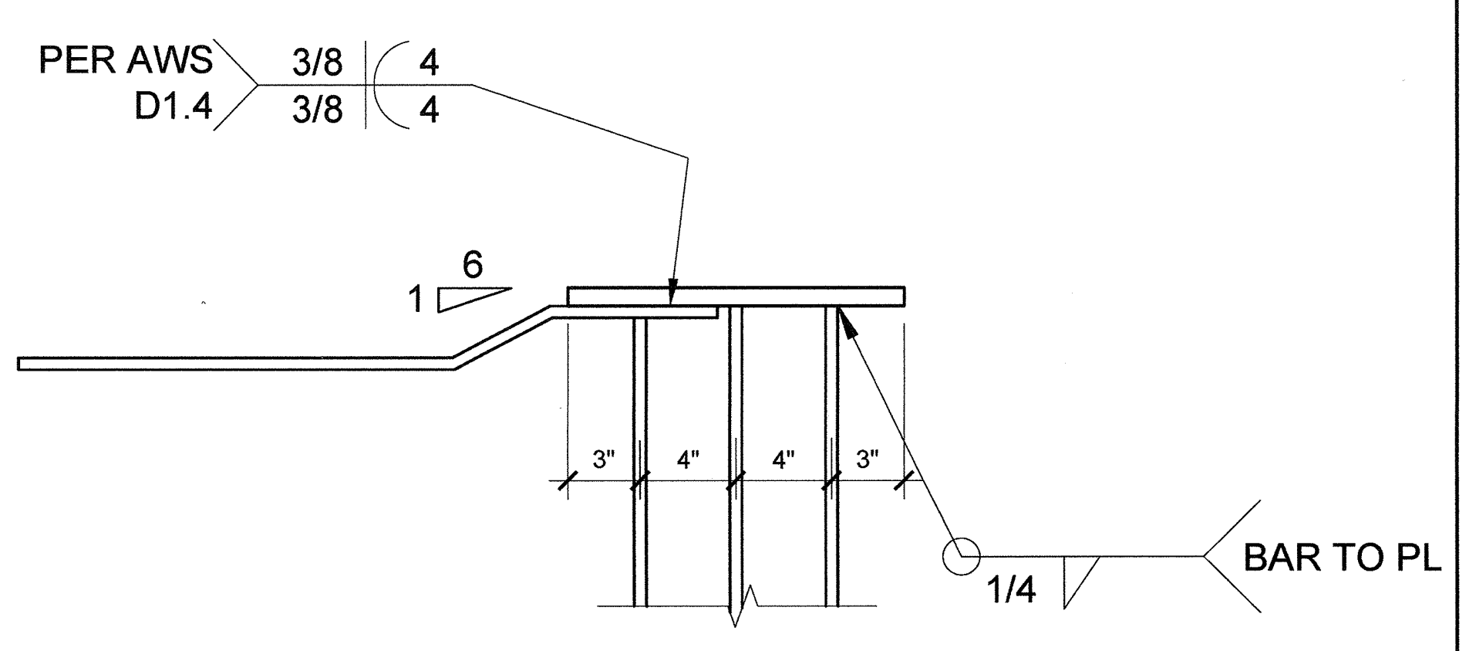
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES

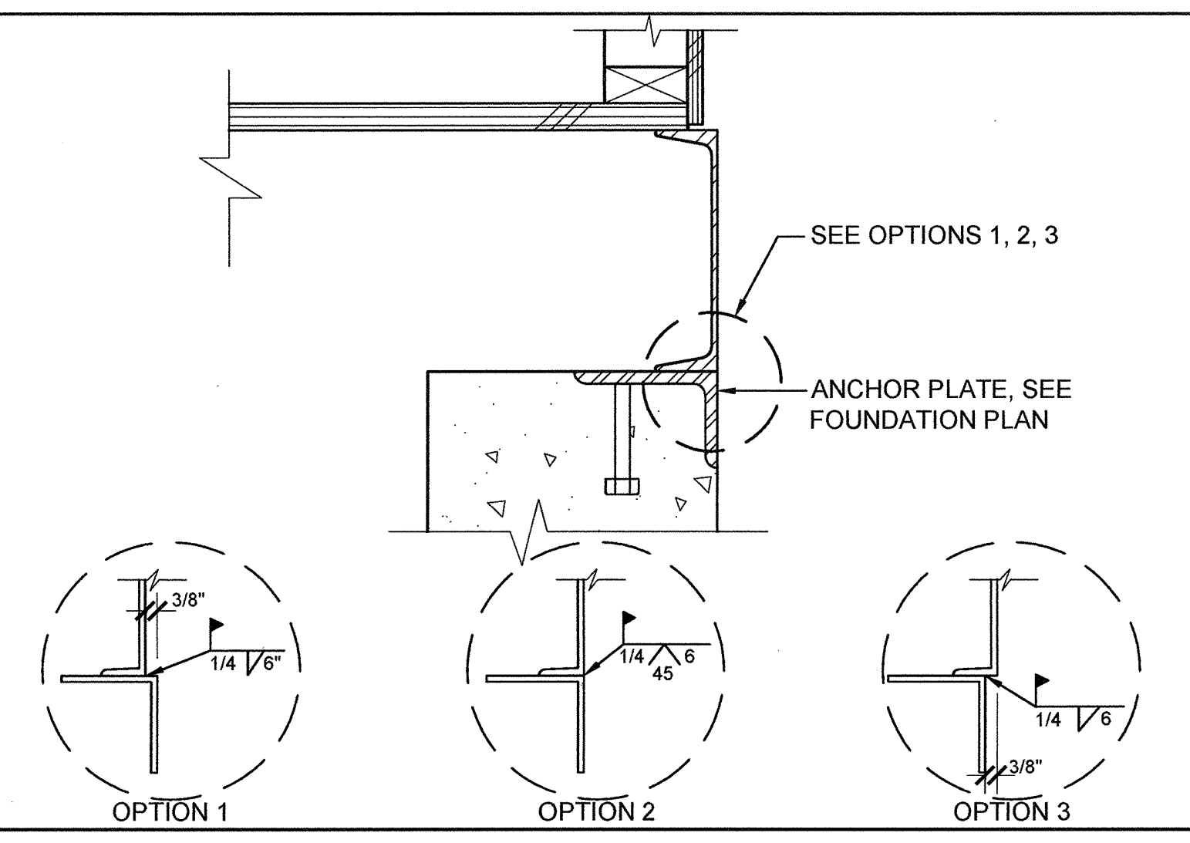


NOTES;
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

FOUNDATION WELDING W/ SHIM PLATES 20



ANCHOR PLATE DETAIL SCALE : 1 1/2" = 1'-0" 15



FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10

PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

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SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

FOUNDATION
DETAILS
CONCRETE

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
01/23/2017
RST#15008

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

F-2.51-M1

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

A GEOTECHNICAL REPORT HAS BEEN PROVIDED BY HARRINGTON GEOTECHNICAL ENGINEERING DATED FEBRUARY 23, 2015. ALL RECOMMENDATIONS PROVIDED BY GEOTECHNICAL REPORT SHALL BE FOLLOWED HEREIN.

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-11.
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS SPECIFIED IN TITLE 24. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1).
   CONCRETE COMPRESSIVE STRENGTH F'C= 3500 PSI
   WATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT
   PORTLAND CEMENT TYPE I
   NORMAL WEIGHT
5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN CONCRETE SLAB SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ALL CEMENT SHALL BE TYPE I OR II PER ASTM C-150. (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING
11. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
12. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
13. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2013 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.120" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.135" : ASTM A-1011/A GRADE 40

SHEET STEEL DESIGNATION THICKNESS (INCHES)	MINIMUM DELIVERED THICKNESS (INCHES)
0.018	0.017
0.030	0.029
0.036	0.034
0.048	0.046
0.060	0.057
0.075	0.071
0.105	0.100
0.120	0.114
0.135	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NDT:

CJP GROOVE WELD NDT

ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = DF #2 OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS-1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS-1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.9.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.11.2.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663 OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.9.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

MATERIALS: ALL STRUCTURAL STEEL IDENTIFICATION SHALL CONFORM WITH TITLE 24, SECTION 2203A.1.

STEEL SHAPES: ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36, OPEN HEARTH OR ELECTRIC FURNACE ONLY.

STEEL TUBES: ALL STRUCTURAL TUBES SHALL CONFORM TO REQUIREMENTS OF ASTM A-500 GRADE B (fy=46 KSI), ASTM A53 OR A1085 TYPICAL.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - (BLOCK AT ALL PANEL EDGES) STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO SHEET METAL SUPPORTS W/ #8 x 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS (ICC ESR-1976) ~~OR 0.145 PACFAST PREFERRED FASTENERS (ICC ESR-2961) AT 4" OC AT BOUNDARIES;~~ 6" OC AT EDGES, AND 12" OC FIELD NAILS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2. NOTE: ~~0.145 PNEUMATIC FASTENERS OPTION IS NOT ALLOWED ON PARAPET APPLICATIONS (PARAPET HEIGHT) HIGHER THAN 18" OR AT STRUCTURAL STEEL. IE. TRUSSES.~~

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI or 4000 PSI
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2013 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 14TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE (OR CBC - TABLE 2304.9.1) - WHICHEVER IS MORE RESTRICTIVE

CONNECTION	FASTENING^{a,m}	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3" x 0.131" NAILS	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131") 2 - 3" x 0.31" NAILS	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d($3\frac{1}{2}$" x .135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL	3 - 16d($3\frac{1}{2}$" x .135") AT 16" O.C. 4 - 3"x0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON ($3\frac{1}{2}$" x 0.162") 3 - 3"x0.031" NAILS	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON ($2\frac{1}{2}$"x0.131") 4 - 3"x0.131" NAILS	TOENAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	END NAIL
9. DOUBLE STUDS	16d ($3\frac{1}{2}$"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 12" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d ($3\frac{1}{2}$"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON ($3\frac{1}{2}$"x0.162") 12 - 3"x0.131" NAILS	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	TOENAIL
12. RIM JOIST TO TOP PLATE	8d ($2\frac{1}{2}$"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS, AND INTERSECTIONS	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON ($3\frac{1}{2}$"x0.162")	16" OC ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 5 - 3"x0.131" NAILS	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON ($2\frac{1}{2}$"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	FACE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON ($2\frac{1}{2}$"x0.131") 2 - 3"x0.131" NAILS	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON ($3\frac{1}{2}$"x0.162") 3"x0.131" NAILS	24" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32" O.C 3"x0.131" NAIL AT 24" O.C	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x0.192") 3 - 3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON ($3\frac{1}{2}$"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
28. ROOF RAFTERS TO 2-BY RIDGE BEAM	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD^{b} SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d^{c,l} $2\frac{3}{8}$"x0.113" NAIL^{n} $1\frac{3}{4}$" 16d GAGE^{o} 19/32" TO 3/4" 8d^{d} or 6d^{e} $2\frac{3}{8}$"x0.113" NAIL 2" 16d GAGE^{p} 7/8" TO 1" 8d^{c} 1 1/8" TO 1 1/4" 10d^{d} or 8d^{e}	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS 6d^{e} 7/8" TO 1" 8d^{e} 1 1/8" TO 1 1/4" 10d^{d} OR 8d^{e}	
32. PANEL SIDING (TO FRAMING)	1/2" AND LESS 6d^{f} 5/8" 8d^{f}	
33. FIBERBOARD SHEATHING^{g}	1/2" NO. 11 GA ROOFING NAIL^{h} 6d COMMON NAIL (2"x0.113") 25/32" NO. 11 GA ROOFING NAIL^{h} 8d COMMON NAIL ($2\frac{1}{2}$"x 0.131")	
34. INTERIOR PANELING	1/4" 4d^{j} 3/8" 6d^{k}	

FOOTNOTES:
a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
b. NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX, OR CASING.
c. COMMON OR DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
d. COMMON (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
e. DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
f. CORROSION-RESISTANT SIDING (6d - 1 7/8" x 0.106" ; 8d - 2 3/8" x 0.128") OR CASING (6d - 2" x 0.099" ; 8d - 2 1/2" x 0.113") NAIL.
g. FASTENERS SPACED 3" ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
j. CASING (1 1/2" x 0.080") OR FINISH (1 1/2" x 0.072") NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
k. PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16". STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.
o. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" ON CENTER AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
p. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

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SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
STRUCTURAL SPECIFICATIONS

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#45008
01/23/2017

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
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SCALE:	AS NOTED
DATE:	02-18-2016

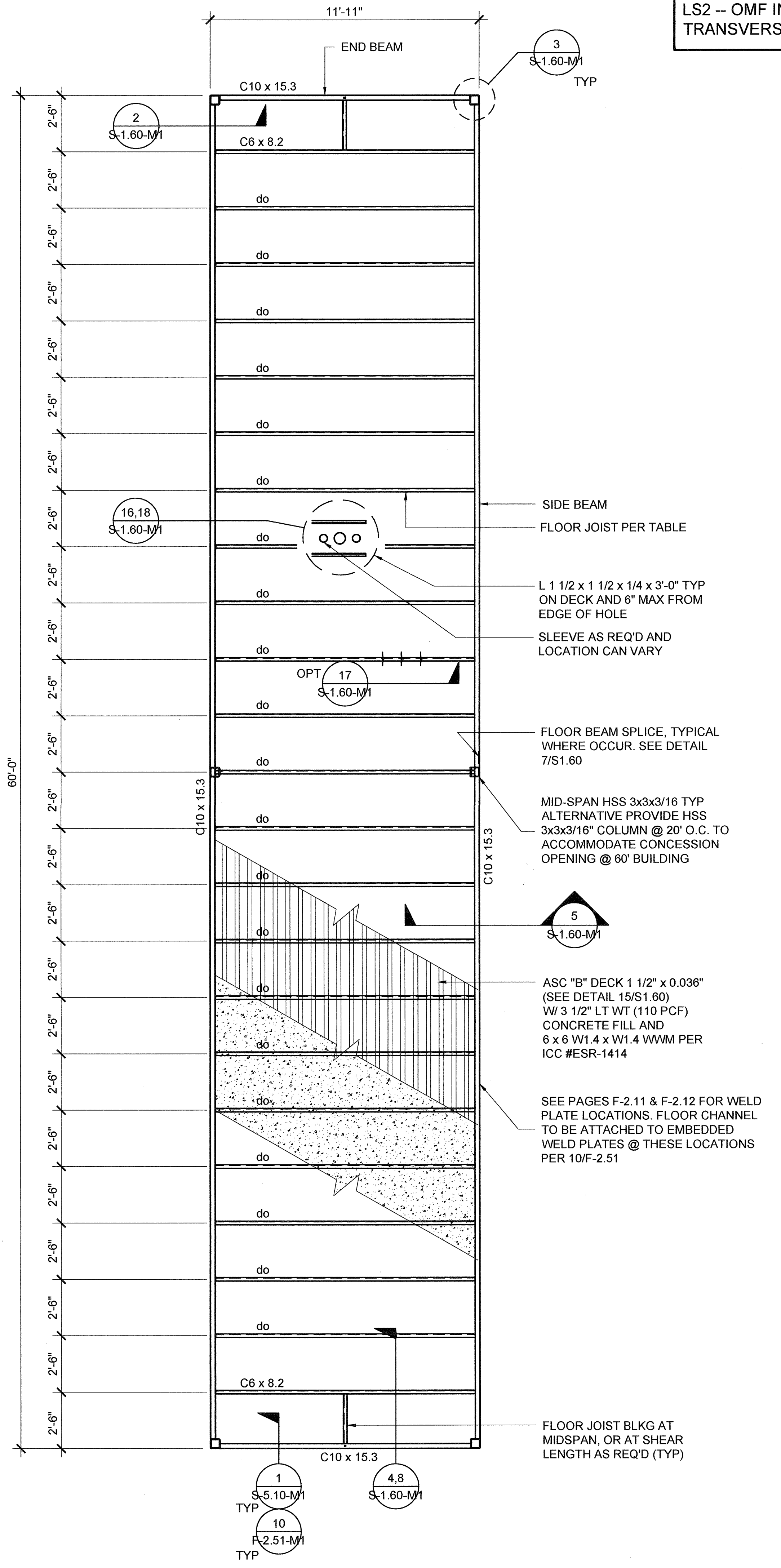
SHEET NUMBER
S-0.1-M1

125 psf FOR 60'
CONCESSIONS/STORAGE
100 psf FOR 60' RESTROOMS

12x40 BUILDINGS:
SHEAR WALL ALONG THE END (TRANSVERSE) WALLS
MOMENT FRAMES ALONG THE SIDE (LONGITUDINAL) WALL
LOAD SCENARIO 1

12x60 BUILDING CONCESSION BUILDINGS:
LS3 -- OMF IN EACH DIRECTION

12x60 RESTROOM BUILDINGS:
LS2 -- OMF IN LONGITUDINAL (SIDEWALL) DIRECTION, SW IN TRANSVERSE (ENDWALL) DIRECTION



END BEAM

SIDE BEAM

FLOOR JOIST PER TABLE

L 1 1/2 x 1 1/2 x 1/4 x 3'-0" TYP ON DECK AND 6" MAX FROM EDGE OF HOLE

SLEEVE AS REQ'D AND LOCATION CAN VARY

FLOOR BEAM SPLICE, TYPICAL WHERE OCCUR. SEE DETAIL 7/S1.60

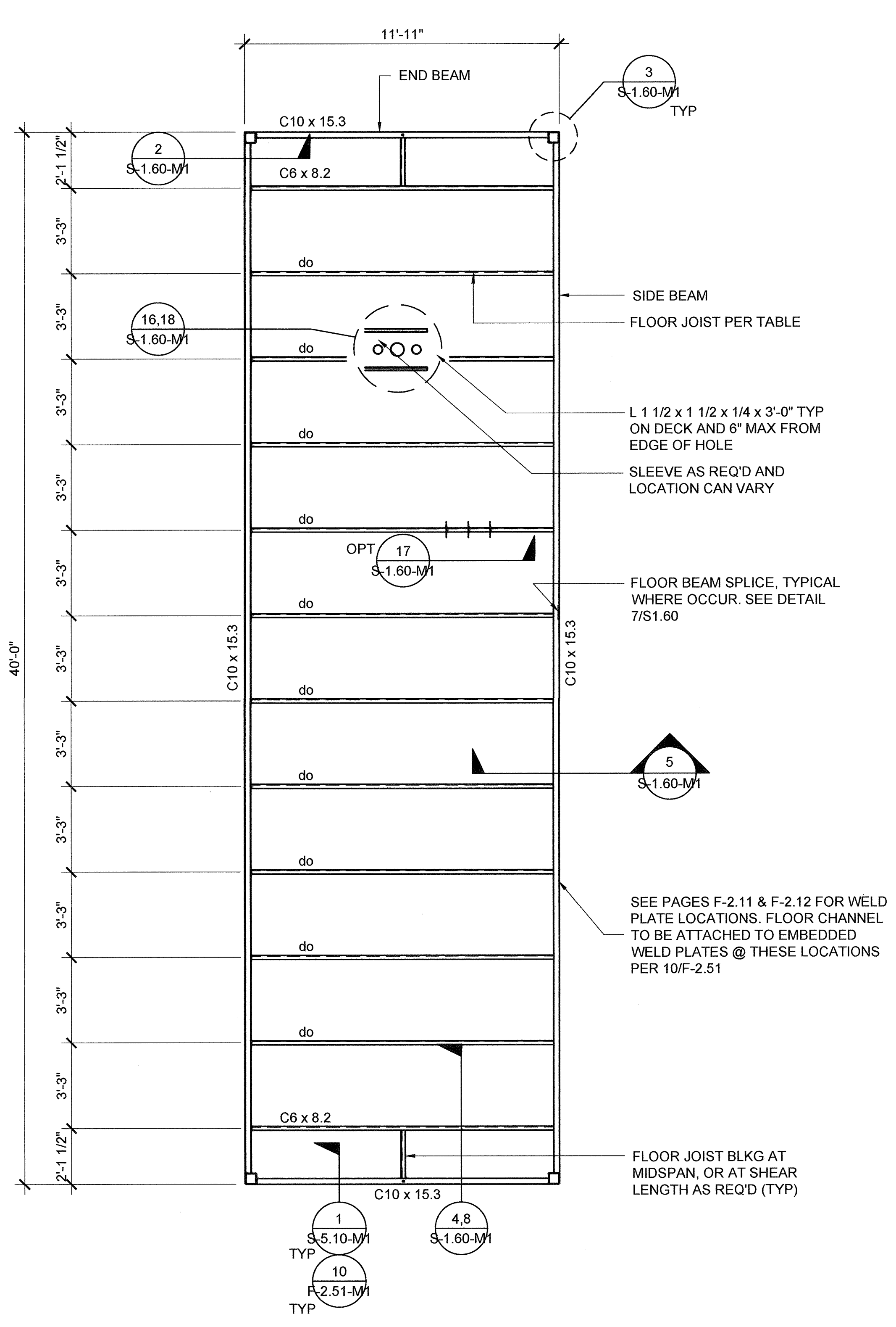
MID-SPAN HSS 3x3x3/16 TYP ALTERNATIVE PROVIDE HSS 3x3x3/16" COLUMN @ 20' O.C. TO ACCOMMODATE CONCESSION OPENING @ 60' BUILDING

ASC "B" DECK 1 1/2" x 0.036" (SEE DETAIL 15/S1.60) W/ 3 1/2" LT WT (110 PCF) CONCRETE FILL AND 6 x 6 W1.4 x W1.4 WWM PER ICC #ESR-1414

SEE PAGES F-2.11 & F-2.12 FOR WELD PLATE LOCATIONS. FLOOR CHANNEL TO BE ATTACHED TO EMBEDDED WELD PLATES @ THESE LOCATIONS PER 10/F-2.51

FLOOR JOIST BLKG AT MIDSPAN, OR AT SHEAR LENGTH AS REQ'D (TYP)

100 psf FOR 40' RESTROOMS



END BEAM

SIDE BEAM

FLOOR JOIST PER TABLE

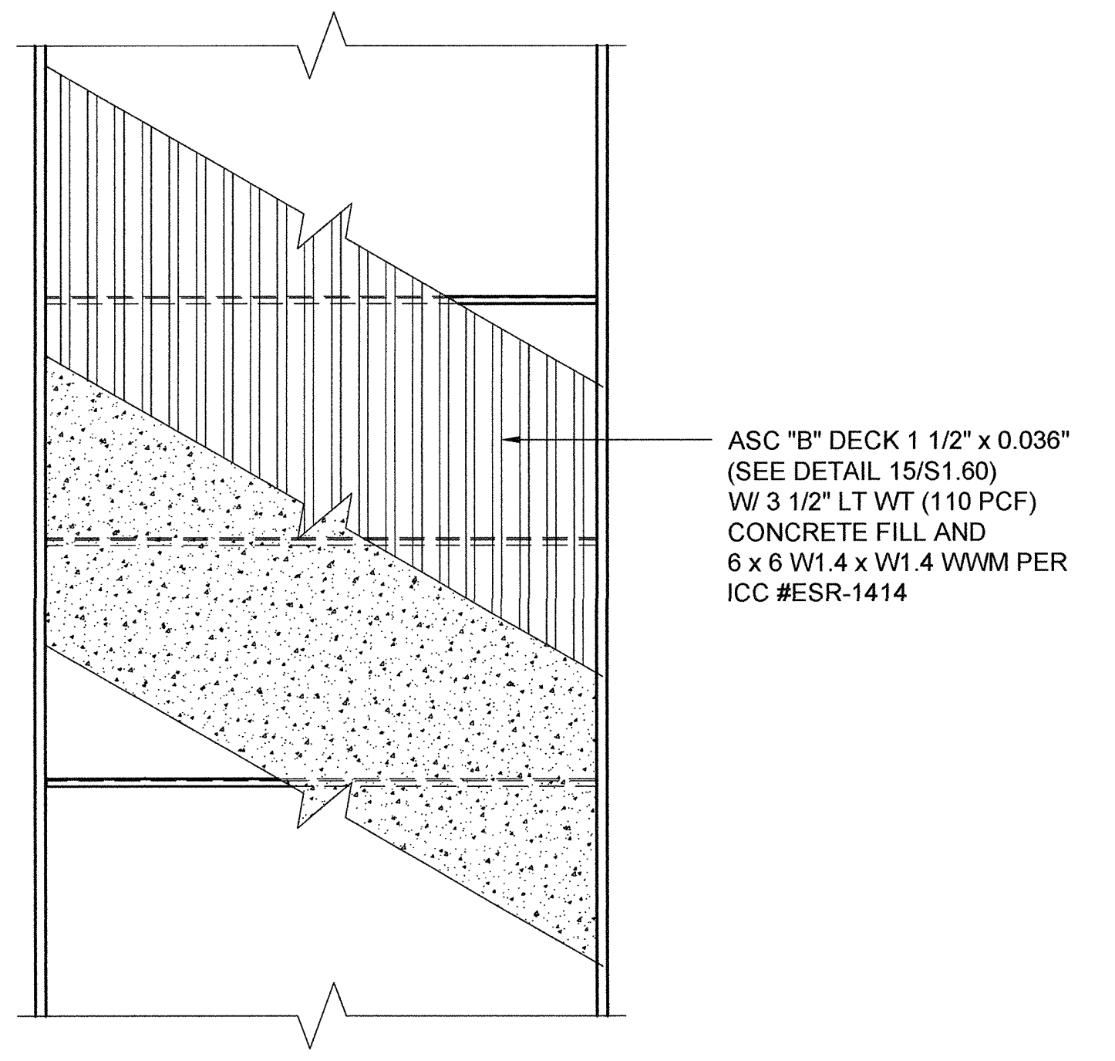
L 1 1/2 x 1 1/2 x 1/4 x 3'-0" TYP ON DECK AND 6" MAX FROM EDGE OF HOLE

SLEEVE AS REQ'D AND LOCATION CAN VARY

FLOOR BEAM SPLICE, TYPICAL WHERE OCCUR. SEE DETAIL 7/S1.60

SEE PAGES F-2.11 & F-2.12 FOR WELD PLATE LOCATIONS. FLOOR CHANNEL TO BE ATTACHED TO EMBEDDED WELD PLATES @ THESE LOCATIONS PER 10/F-2.51

FLOOR JOIST BLKG AT MIDSPAN, OR AT SHEAR LENGTH AS REQ'D (TYP)



ASC "B" DECK 1 1/2" x 0.036" (SEE DETAIL 15/S1.60) W/ 3 1/2" LT WT (110 PCF) CONCRETE FILL AND 6 x 6 W1.4 x W1.4 WWM PER ICC #ESR-1414

NOTE:
SEE 10/F-2.51-M1 FOR FLOOR TO FOUNDATION ATTACHMENT

FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" 1

FLOOR JOIST TABLE

LIVE LOAD PSF	JOIST SPACING
100	39"
125	30"

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CONCRETE FLOOR

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DESIGN◆CONSULTING◆PROJECT MGT
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SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
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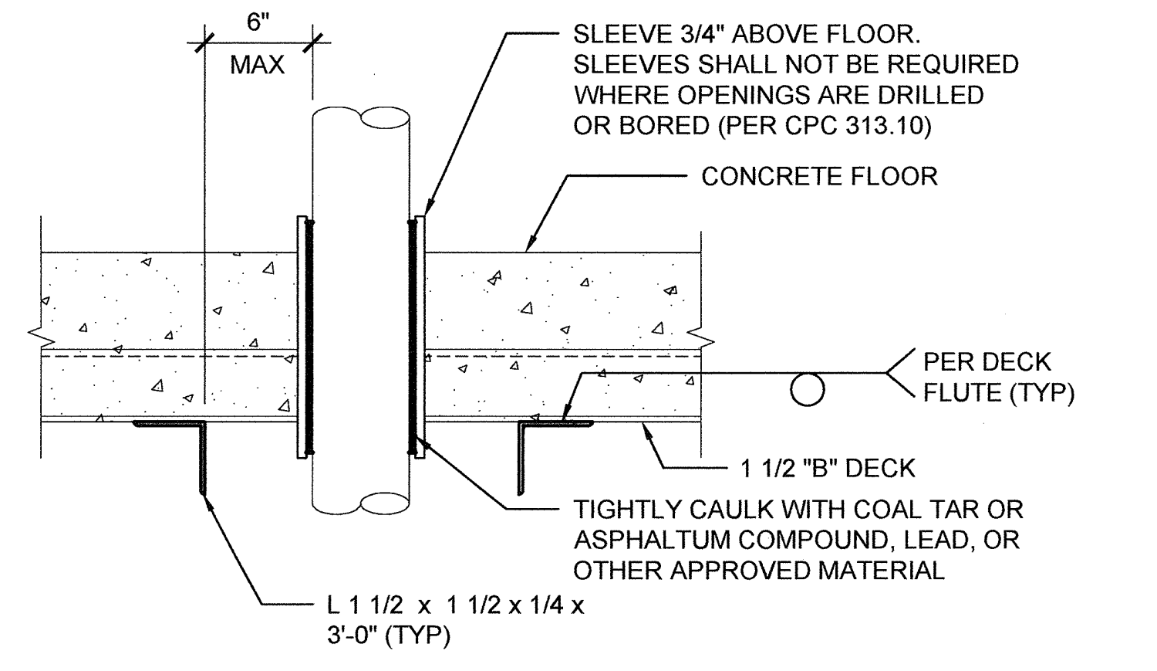
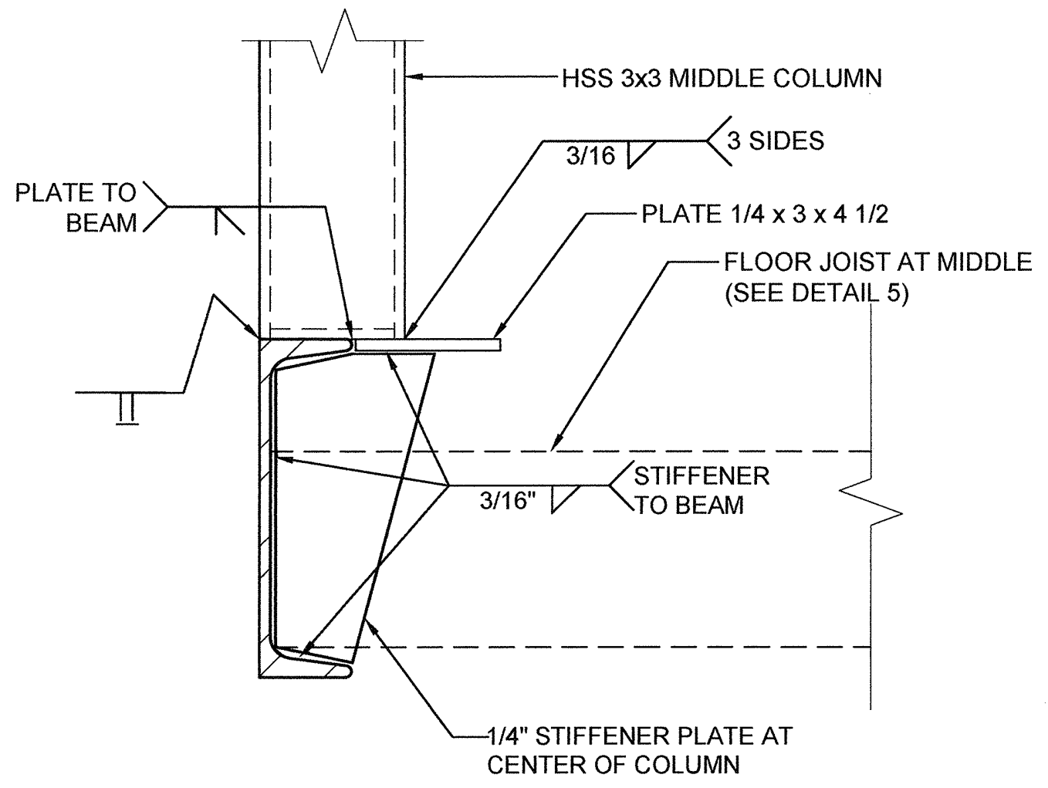
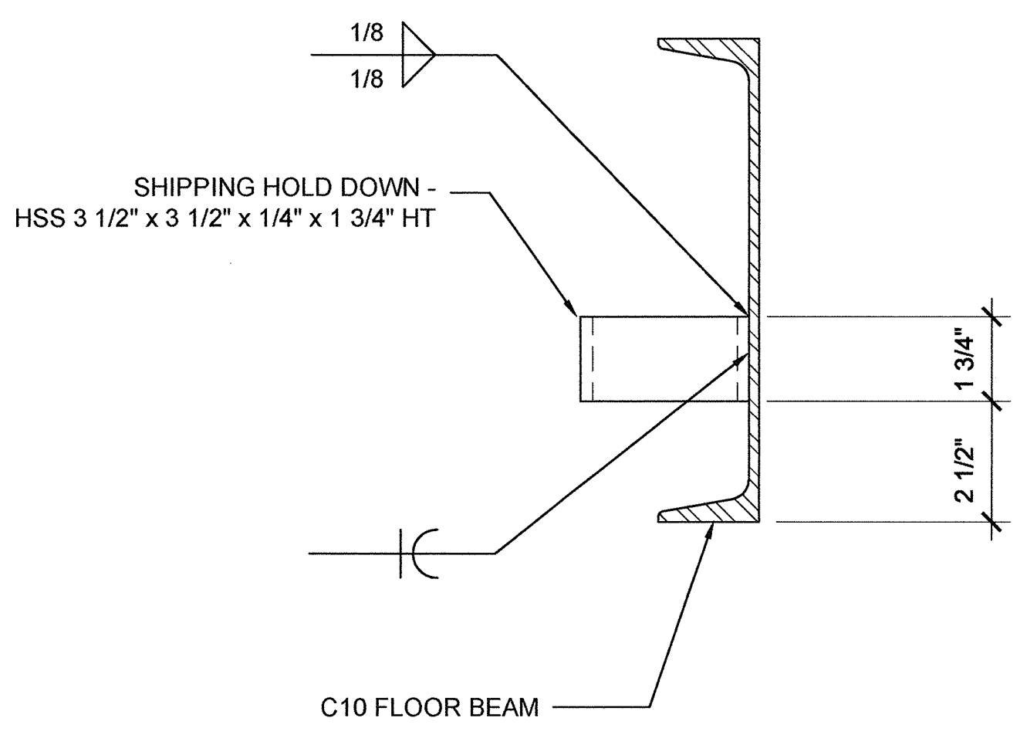

6"
MAX
SLEEVE 3/4" ABOVE FLOOR.
SLEEVES SHALL NOT BE REQUIRED
WHERE OPENINGS ARE DRILLED
OR BORED (PER CPC 313.10)
CONCRETE FLOOR
PER DECK
FLUTE (TYP)
1 1/2 "B" DECK
TIGHTLY CAULK WITH COAL TAR OR
ASPHALTUM COMPOUND, LEAD, OR
OTHER APPROVED MATERIAL
L 1 1/2 x 1 1/2 x 1/4 x
3'-0" (TYP)

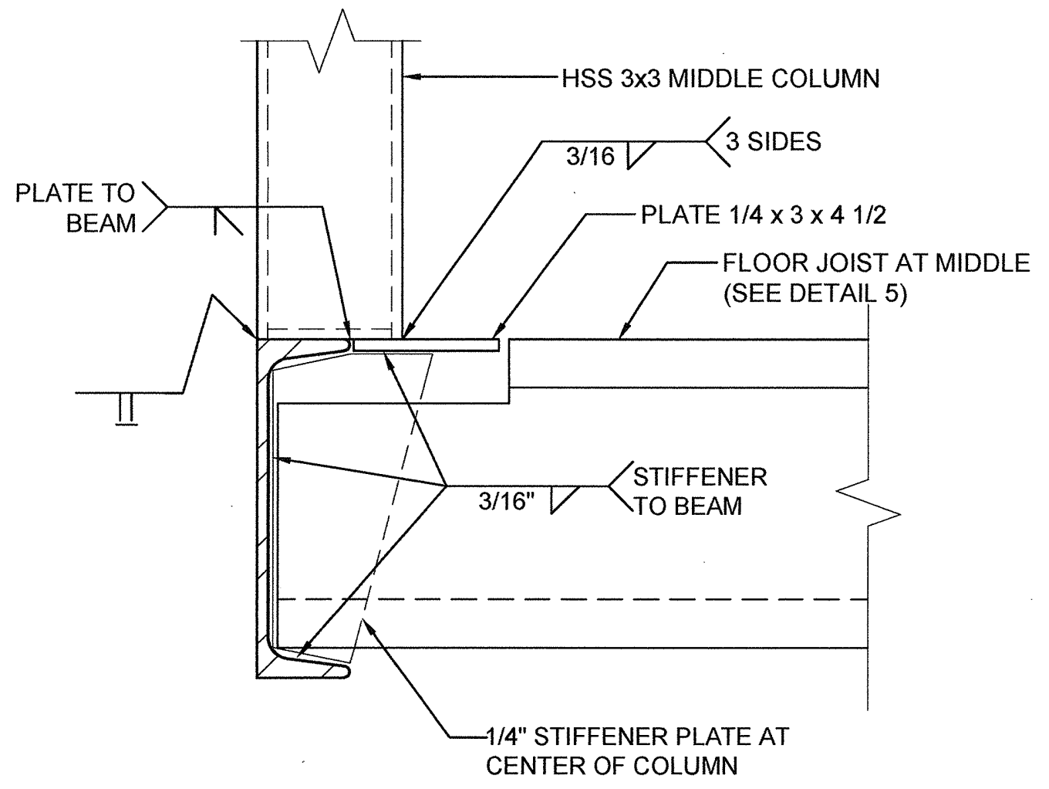
FLOOR PENETRATION SCALE : 3" = 1'-0" 16



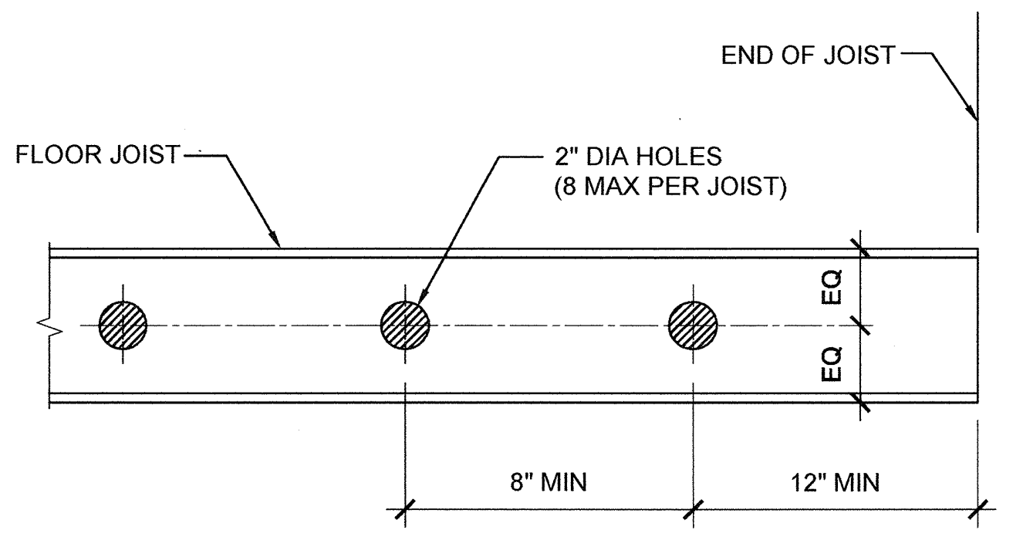
INTERIOR COLUMN AT FLOOR BEAM SCALE: 3"=1'-0" 11



SHIPPING HOLD DOWN DETAIL(not for dsa review) SCALE : 3"=1'-0" 6

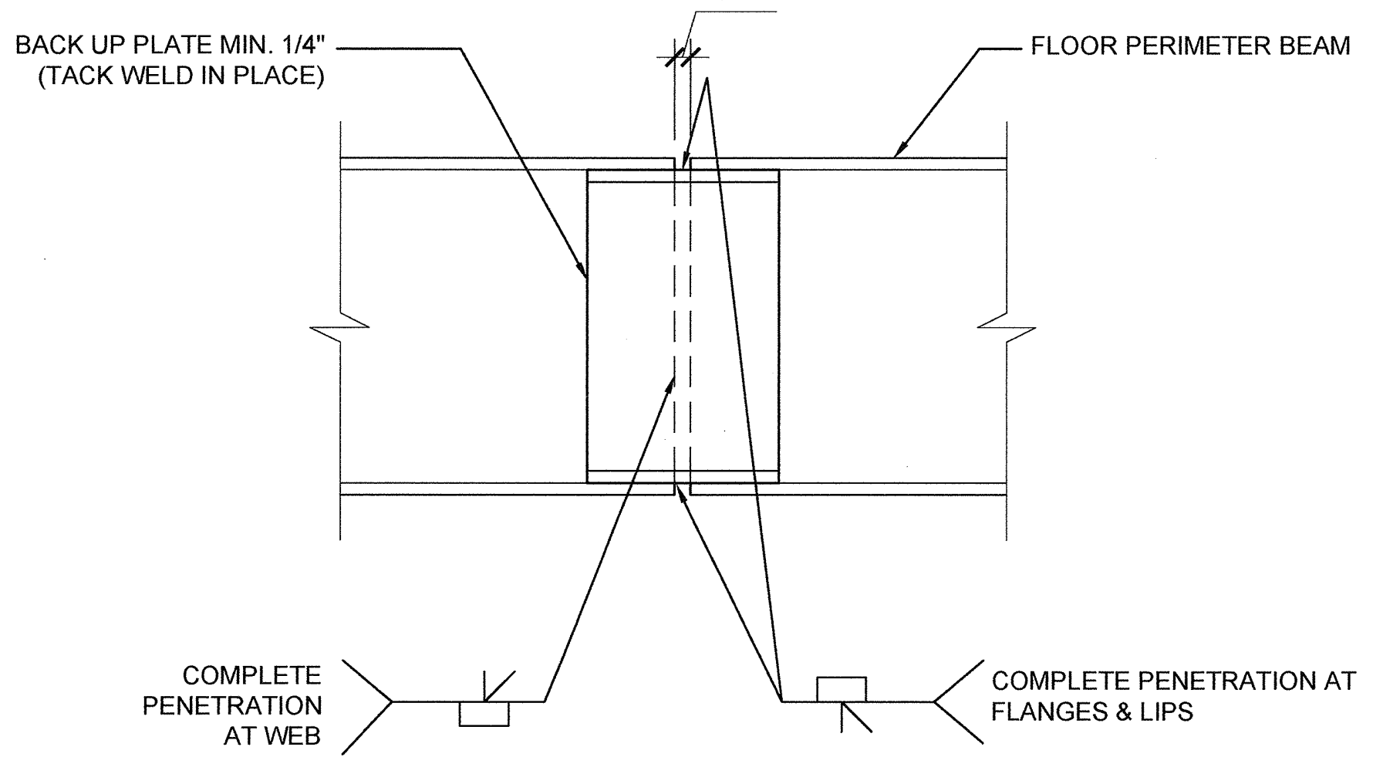


INTERIOR COLUMN AT FLOOR BEAM SCALE: 3"=1'-0" 1

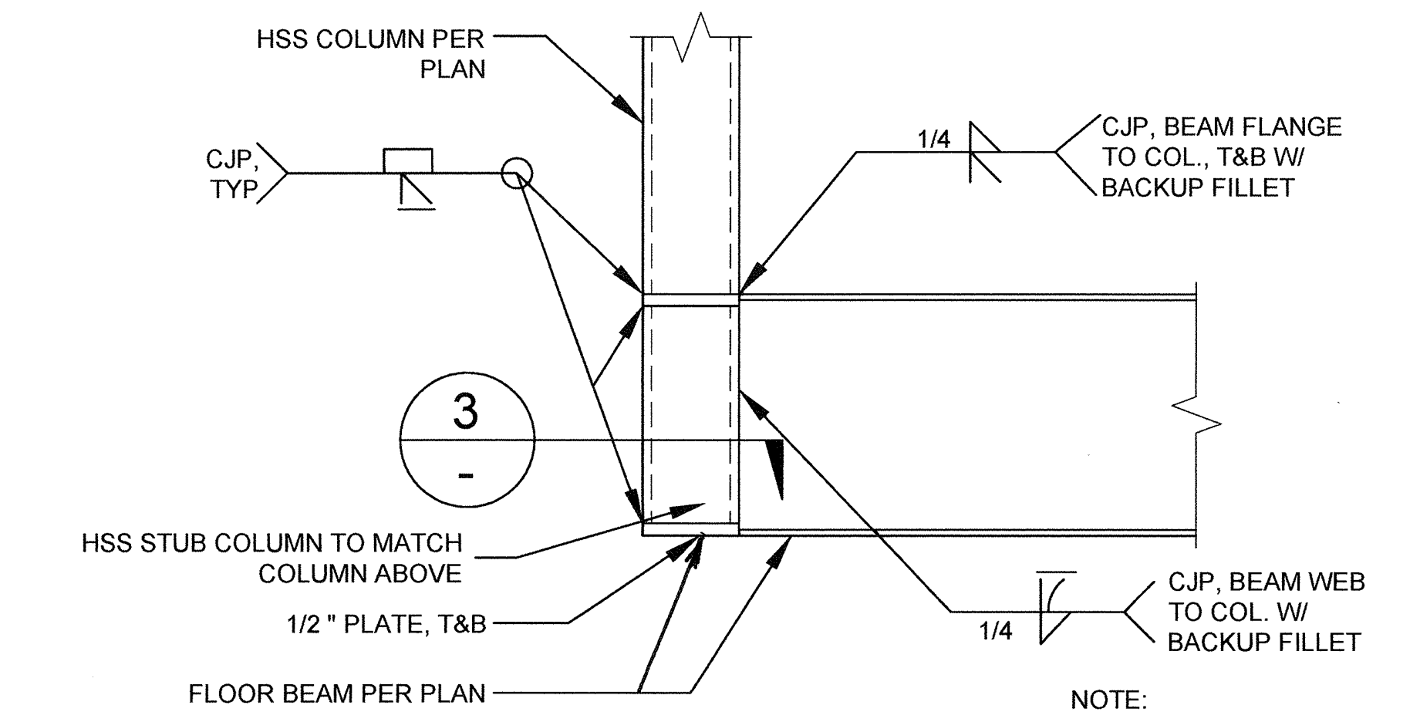


FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0" 17

NOT USED 12

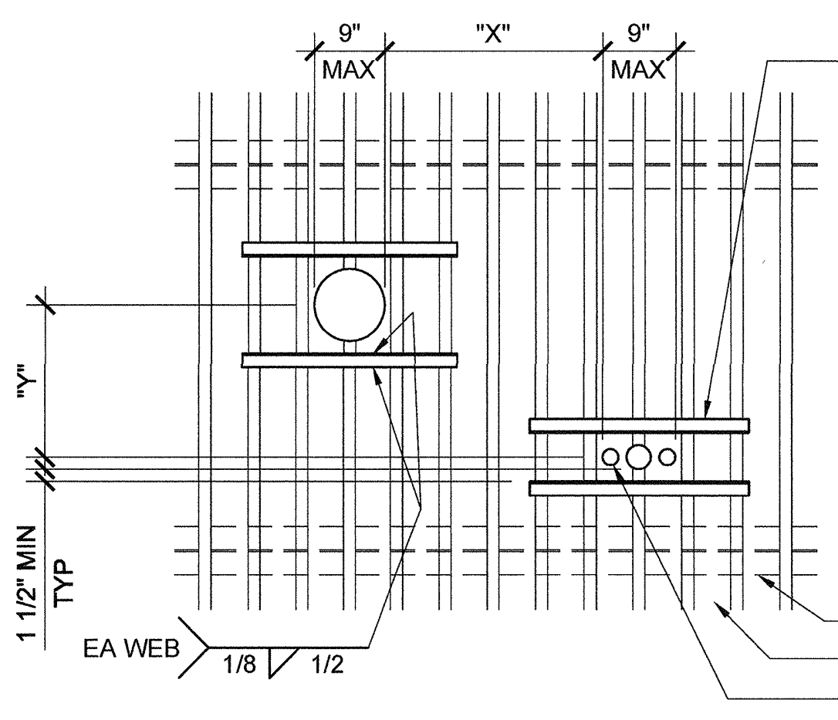


FLOOR BEAM SPLICE SCALE : 3" = 1'-0" 7



NOTE:
PERPENDICULAR MEMBER
NOT SHOWN FOR CLARITY

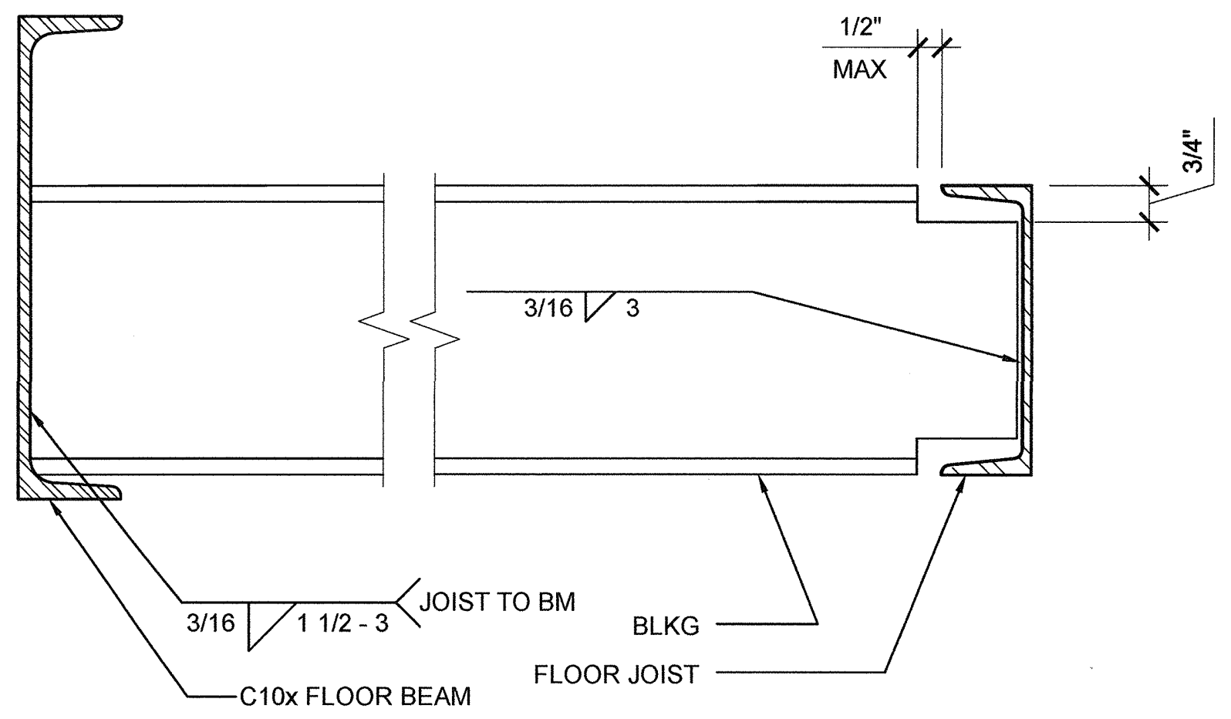
FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0" 2



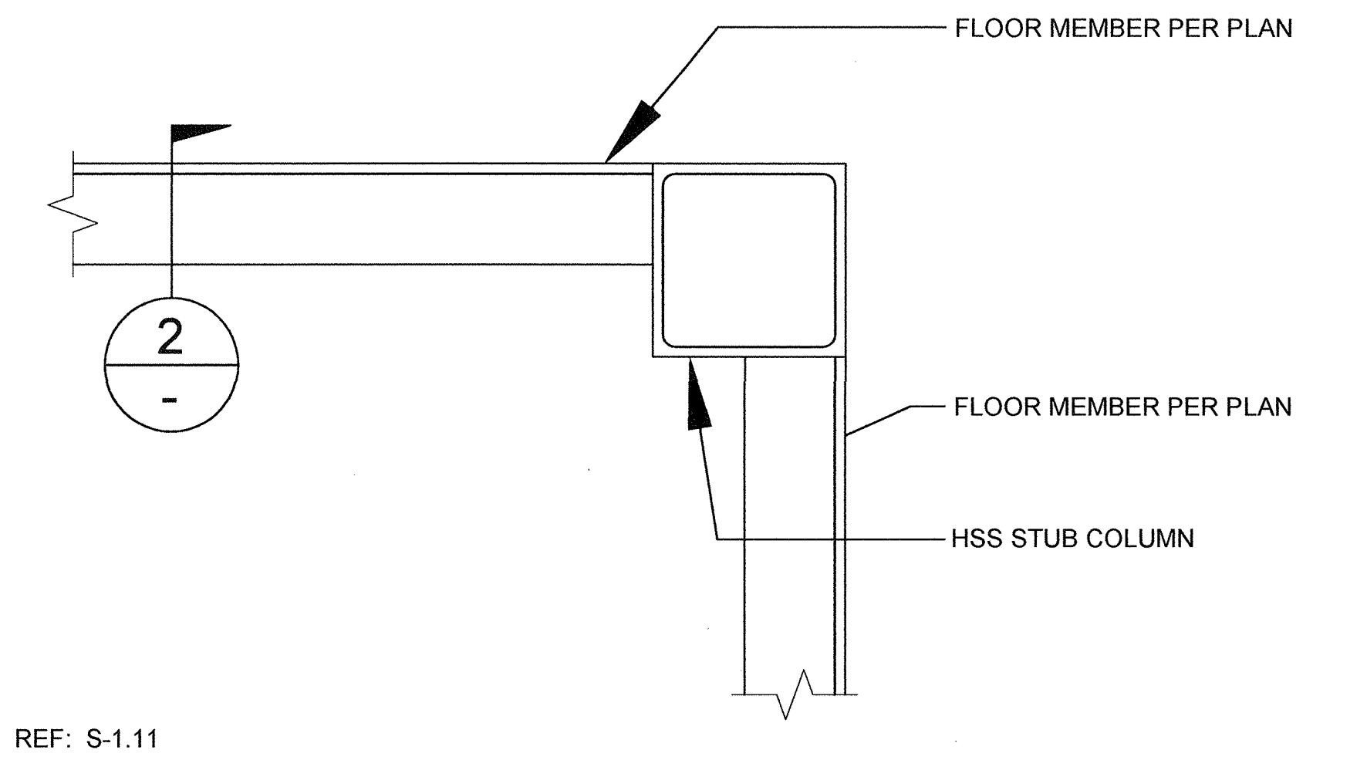
NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

PENETRATIONS IN DECK (OPTION) SCALE : 1/2"=1'-0" 18

NOT USED 13



BLOCKING TO JOIST SCALE : 3"=1'-0" 8



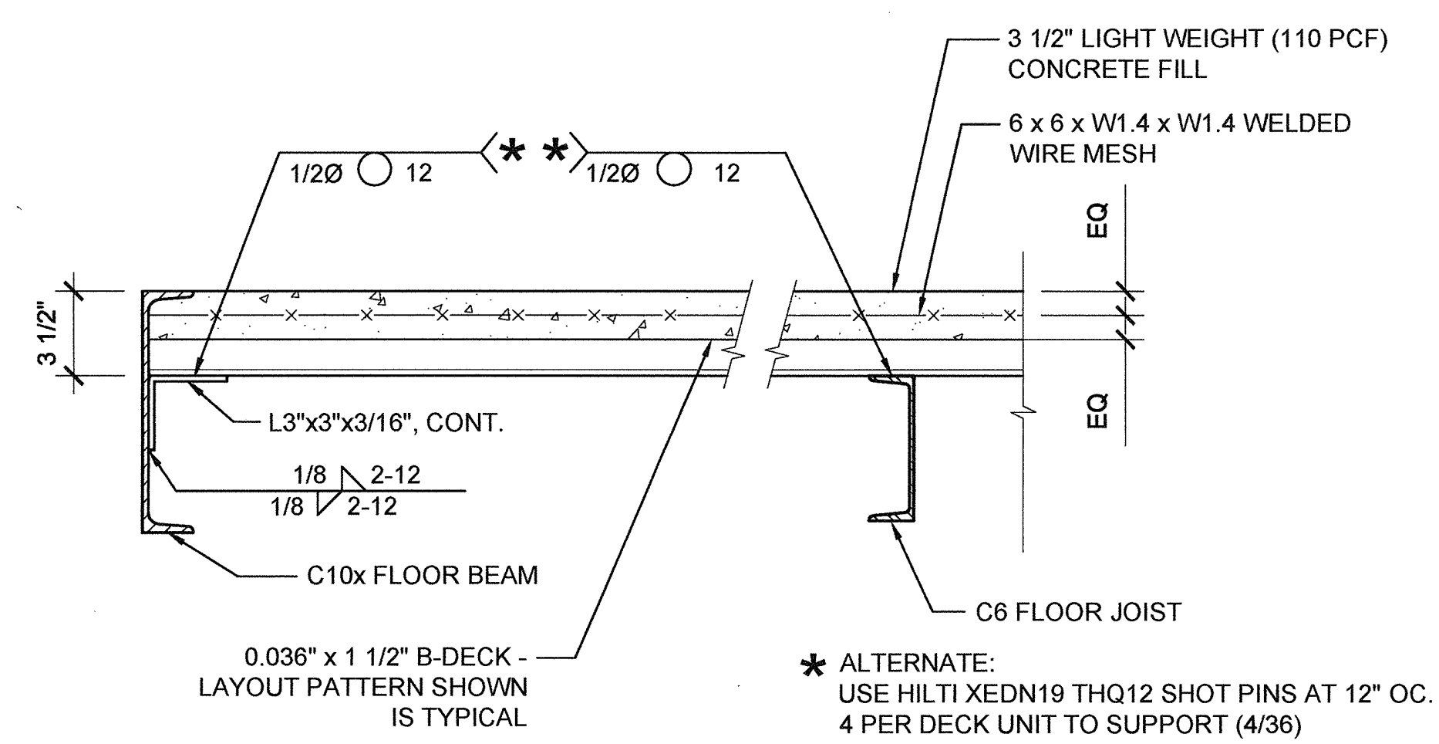
REF: S-1.11

CORNER CONNECTION SCALE : 3" = 1'-0" 3

NOT USED 19

NOT USED 14

NOT USED 9

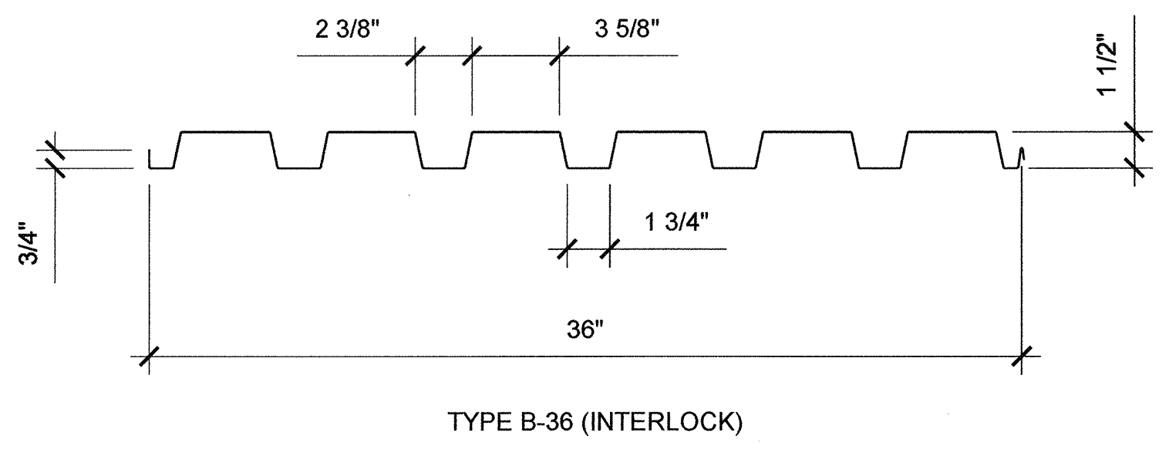


* ALTERNATE:
USE HILTI XEDN19 THQ12 SHOT PINS AT 12" OC.
4 PER DECK UNIT TO SUPPORT (4/36)
(ICC #ESR-2776)

REF: S-1.11

DECK AT END BEAM SCALE : 1 1/2" = 1'-0" 4

NOT USED 20

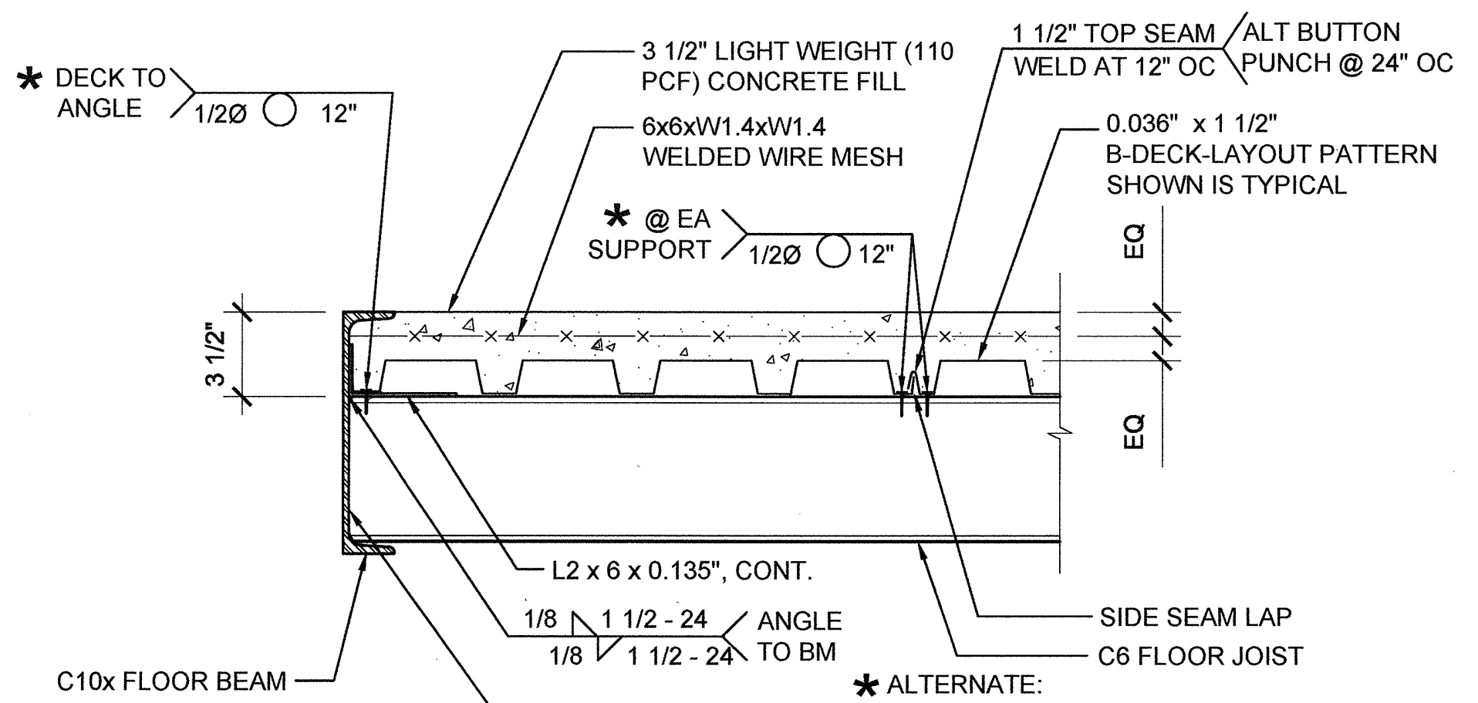


TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I (IN^4): 0.22
POSITIVE (IN^3): 0.235
NEGATIVE (IN^3): 0.246

FLOOR DECK PROPERTY SCALE : 1 1/2" = 1'-0" 15

NOT USED 10



* ALTERNATE:
USE HILTI XEDN19 THQ12 SHOT PINS AT 12" OC.
4 PER DECK UNIT TO SUPPORT (4/36)
(ICC #ESR-2776)

REF: S-1.11

JOIST TO SIDE BEAM SCALE : 1 1/2" = 1'-0" 5

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SHEET TITLE:

FLOOR FRAMING DETAIL
CONCRETE FLOOR

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SAN DIEGO, CA 92127 858.444.3344
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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
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SCALE:	AS NOTED
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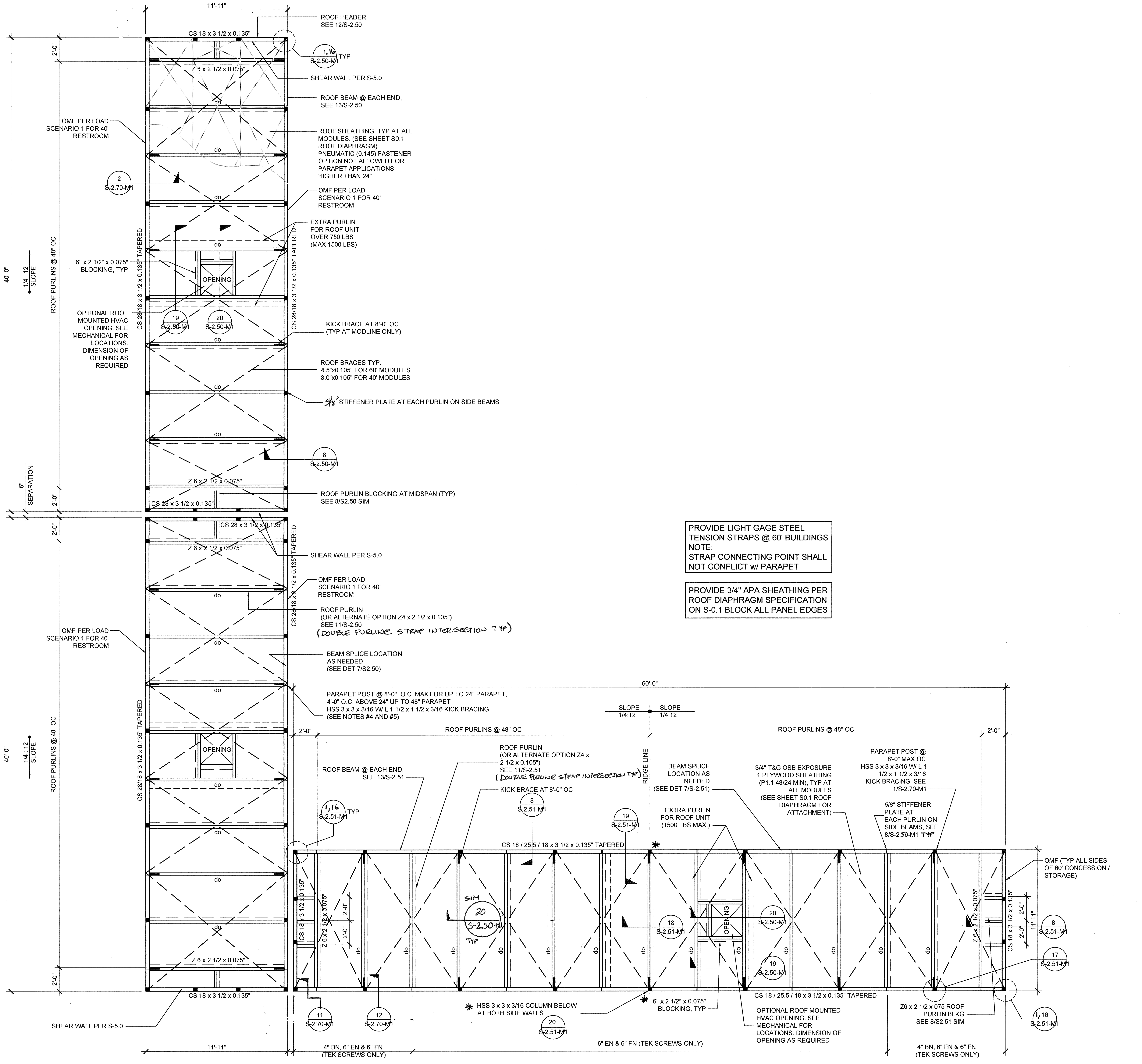
11'-11"
CS 18 x 3 1/2 x 0.135"
ROOF HEADER, SEE 12/S-2.50
1,16 S-2.50-M1 TYP
Z 6 x 2 1/2 x 0.075"
SHEAR WALL PER S-5.0
ROOF BEAM @ EACH END, SEE 13/S-2.50
do
OMF PER LOAD SCENARIO 1 FOR 40' RESTROOM
ROOF SHEATHING. TYP AT ALL MODULES. (SEE SHEET S0.1 ROOF DIAPHRAGM) PNEUMATIC (0.145) FASTENER OPTION NOT ALLOWED FOR PARAPET APPLICATIONS HIGHER THAN 24"
2 S-2.70-M1
EXTRA PURLIN FOR ROOF UNIT OVER 750 LBS (MAX 1500 LBS)
6" x 2 1/2" x 0.075" BLOCKING, TYP
OPENING
40'-0"
1/4 : 12 SLOPE
ROOF PURLINS @ 48" OC
CS 28/18 x 3 1/2 x 0.135" TAPERED
OPTIONAL ROOF MOUNTED HVAC OPENING. SEE MECHANICAL FOR LOCATIONS. DIMENSION OF OPENING AS REQUIRED
19 S-2.50-M1
20 S-2.50-M1
KICK BRACE AT 8'-0" OC (TYP AT MODLINE ONLY)
ROOF BRACES TYP. 4.5"x0.105" FOR 60' MODULES 3.0"x0.105" FOR 40' MODULES
5/8" STIFFENER PLATE AT EACH PURLIN ON SIDE BEAMS
8 S-2.50-M1
2'-0"
6" SEPARATION
ROOF PURLIN BLOCKING AT MIDSPAN (TYP) SEE 8/S2.50 SIM
CS 28 x 3 1/2 x 0.135"
ROOF PURLIN (OR ALTERNATE OPTION Z4 x 2 1/2 x 0.105") SEE 11/S-2.50
(DOUBLE PURLINE STRAP INTERSECTION TYP)
BEAM SPLICE LOCATION AS NEEDED (SEE DET 7/S2.50)
60'-0"
PARAPET POST @ 8'-0" O.C. MAX FOR UP TO 24" PARAPET, 4'-0" O.C. ABOVE 24" UP TO 48" PARAPET HSS 3 x 3 x 3/16 W/ L 1 1/2 x 1 1/2 x 3/16 KICK BRACING (SEE NOTES #4 AND #5)
SLOPE 1/4:12
SLOPE 1/4:12
ROOF PURLINS @ 48" OC
RIDGE LINE
ROOF BEAM @ EACH END, SEE 13/S-2.51
ROOF PURLIN (OR ALTERNATE OPTION Z4 x 2 1/2 x 0.105") SEE 11/S-2.51
(DOUBLE PURLINE STRAP INTERSECTION TYP)
KICK BRACE AT 8'-0" OC
1,16 S-2.51-M1 TYP
8 S-2.51-M1
19 S-2.51-M1
BEAM SPLICE LOCATION AS NEEDED (SEE DET 7/S-2.51)
EXTRA PURLIN FOR ROOF UNIT (1500 LBS MAX.)
3/4" T&G OSB EXPOSURE 1 PLYWOOD SHEATHING (P1.1 48/24 MIN), TYP AT ALL MODULES (SEE SHEET S0.1 ROOF DIAPHRAGM FOR ATTACHMENT)
PARAPET POST @ 8'-0" MAX OC HSS 3 x 3 x 3/16 W/ L 1 1/2 x 1 1/2 x 3/16 KICK BRACING, SEE 1/S-2.70-M1
5/8" STIFFENER PLATE AT EACH PURLIN ON SIDE BEAMS, SEE 8/S-2.50-M1 TYP
CS 18 / 25.5 / 18 x 3 1/2 x 0.135" TAPERED
OMF (TYP ALL SIDES OF 60' CONCESSION / STORAGE)
CS 18 x 3 1/2 x 0.135"
Z 6 x 2 1/2 x 0.075"
SIM 20 S-2.50-M1 TYP
18 S-2.51-M1
20 S-2.50-M1
19 S-2.50-M1
11'-11"
8 S-2.51-M1
17 S-2.51-M1
11 S-2.70-M1
12 S-2.70-M1
* HSS 3 x 3 x 3/16 COLUMN BELOW AT BOTH SIDE WALLS
20 S-2.51-M1
6" x 2 1/2" x 0.075" BLOCKING, TYP
OPTIONAL ROOF MOUNTED HVAC OPENING. SEE MECHANICAL FOR LOCATIONS. DIMENSION OF OPENING AS REQUIRED
Z6 x 2 1/2 x 075 ROOF PURLIN BLKG SEE 8/S2.51 SIM
1,16 S-2.51-M1
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)
6" EN & 6" FN (TEK SCREWS ONLY)
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)

PROVIDE LIGHT GAGE STEEL
TENSION STRAPS @ 60' BUILDINGS
NOTE:
STRAP CONNECTING POINT SHALL
NOT CONFLICT w/ PARAPET

PROVIDE 3/4" APA SHEATHING PER
ROOF DIAPHRAGM SPECIFICATION
ON S-0.1 BLOCK ALL PANEL EDGES

ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0" 1

NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION.
   SEE 5,15 / S-2.50 OR 5,15 / S-2.51 FOR DETAILS.
2. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S2.50 OR 14 / S2.51 DETAILS
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS.

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TPO
PARAPET

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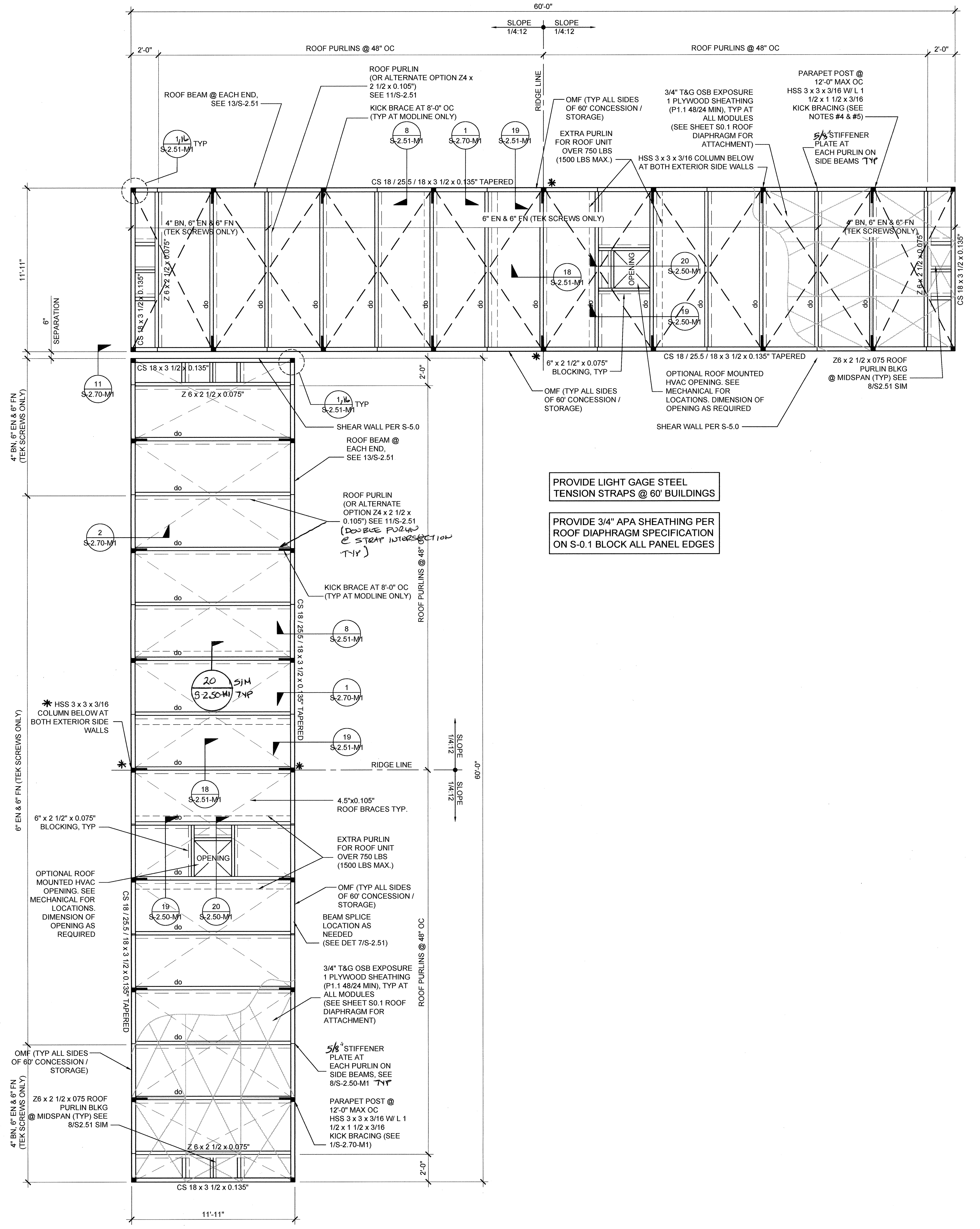
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

S-2.01-M1


60'-0"
SLOPE 1/4:12
SLOPE 1/4:12
2'-0"
ROOF PURLINS @ 48" OC
ROOF PURLINS @ 48" OC
2'-0"
ROOF BEAM @ EACH END, SEE 13/S-2.51
ROOF PURLIN (OR ALTERNATE OPTION Z4 x 2 1/2 x 0.105") SEE 11/S-2.51
KICK BRACE AT 8'-0" OC (TYP AT MODLINE ONLY)
RIDGE LINE
OMF (TYP ALL SIDES OF 60' CONCESSION / STORAGE)
EXTRA PURLIN FOR ROOF UNIT OVER 750 LBS (1500 LBS MAX.)
3/4" T&G OSB EXPOSURE 1 PLYWOOD SHEATHING (P1.1 48/24 MIN), TYP AT ALL MODULES (SEE SHEET S0.1 ROOF DIAPHRAGM FOR ATTACHMENT)
HSS 3 x 3 x 3/16 COLUMN BELOW AT BOTH EXTERIOR SIDE WALLS
PARAPET POST @ 12'-0" MAX OC HSS 3 x 3 x 3/16 W/ L 1 1/2 x 1 1/2 x 3/16 KICK BRACING (SEE NOTES #4 & #5)
5/8" STIFFENER PLATE AT EACH PURLIN ON SIDE BEAMS TYP
1,16 S-2.51-M1 TYP
8 S-2.51-M1
1 S-2.70-M1
19 S-2.51-M1
CS 18 / 25.5 / 18 x 3 1/2 x 0.135" TAPERED
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)
6" EN & 6" FN (TEK SCREWS ONLY)
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)
11'-11"
6" SEPARATION
Z 6 x 2 1/2 x 0.075"
CS 18 x 3 1/2 x 0.135"
do
18 S-2.51-M1
OPENING
20 S-2.50-M1
19 S-2.50-M1
CS 18 / 25.5 / 18 x 3 1/2 x 0.135" TAPERED
6" x 2 1/2" x 0.075" BLOCKING, TYP
OMF (TYP ALL SIDES OF 60' CONCESSION / STORAGE)
OPTIONAL ROOF MOUNTED HVAC OPENING. SEE MECHANICAL FOR LOCATIONS. DIMENSION OF OPENING AS REQUIRED
Z6 x 2 1/2 x 075 ROOF PURLIN BLKG @ MIDSPAN (TYP) SEE 8/S2.51 SIM
SHEAR WALL PER S-5.0
11 S-2.70-M1
CS 18 x 3 1/2 x 0.135"
Z 6 x 2 1/2 x 0.075"
2'-0"
1,16 S-2.51-M1 TYP
SHEAR WALL PER S-5.0
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)
ROOF BEAM @ EACH END, SEE 13/S-2.51
ROOF PURLIN (OR ALTERNATE OPTION Z4 x 2 1/2 x 0.105") SEE 11/S-2.51 (DOUBLE PURLIN @ STRAP INTERSECTION TYP)
2 S-2.70-M1
KICK BRACE AT 8'-0" OC (TYP AT MODLINE ONLY)
ROOF PURLINS @ 48" OC
CS 18 / 25.5 / 18 x 3 1/2 x 0.135" TAPERED
8 S-2.51-M1
20 S-2.50-M1 SIM TYP
1 S-2.70-M1
✱ HSS 3 x 3 x 3/16 COLUMN BELOW AT BOTH EXTERIOR SIDE WALLS
19 S-2.51-M1
RIDGE LINE
SLOPE 1/4:12
SLOPE 1/4:12
60'-0"
6" EN & 6" FN (TEK SCREWS ONLY)
18 S-2.51-M1
4.5"x0.105" ROOF BRACES TYP.
6" x 2 1/2" x 0.075" BLOCKING, TYP
EXTRA PURLIN FOR ROOF UNIT OVER 750 LBS (1500 LBS MAX.)
OPENING
OPTIONAL ROOF MOUNTED HVAC OPENING. SEE MECHANICAL FOR LOCATIONS. DIMENSION OF OPENING AS REQUIRED
OMF (TYP ALL SIDES OF 60' CONCESSION / STORAGE)
19 S-2.50-M1
20 S-2.50-M1
BEAM SPLICE LOCATION AS NEEDED (SEE DET 7/S-2.51)
CS 18 / 25.5 / 18 x 3 1/2 x 0.135" TAPERED
3/4" T&G OSB EXPOSURE 1 PLYWOOD SHEATHING (P1.1 48/24 MIN), TYP AT ALL MODULES (SEE SHEET S0.1 ROOF DIAPHRAGM FOR ATTACHMENT)
ROOF PURLINS @ 48" OC
OMF (TYP ALL SIDES OF 60' CONCESSION / STORAGE)
5/8" STIFFENER PLATE AT EACH PURLIN ON SIDE BEAMS, SEE 8/S-2.50-M1 TYP
4" BN, 6" EN & 6" FN (TEK SCREWS ONLY)
Z6 x 2 1/2 x 075 ROOF PURLIN BLKG @ MIDSPAN (TYP) SEE 8/S2.51 SIM
PARAPET POST @ 12'-0" MAX OC HSS 3 x 3 x 3/16 W/ L 1 1/2 x 1 1/2 x 3/16 KICK BRACING (SEE 1/S-2.70-M1)
Z 6 x 2 1/2 x 0.075"
2'-0"
CS 18 x 3 1/2 x 0.135"
11'-11"

PROVIDE LIGHT GAGE STEEL TENSION STRAPS @ 60' BUILDINGS

PROVIDE 3/4" APA SHEATHING PER ROOF DIAPHRAGM SPECIFICATION ON S-0.1 BLOCK ALL PANEL EDGES

ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0" 1

NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION.
   SEE 5,15 / S-2.50 OR 5,15 / S-2.51 FOR DETAILS.
2. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S2.50 OR 14 / S2.51 DETAILS
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS.

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF FRAMING PLAN
TPO / PARAPET

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC / FLS BD SS
Date FEB 0 3 2017

REVISIONS
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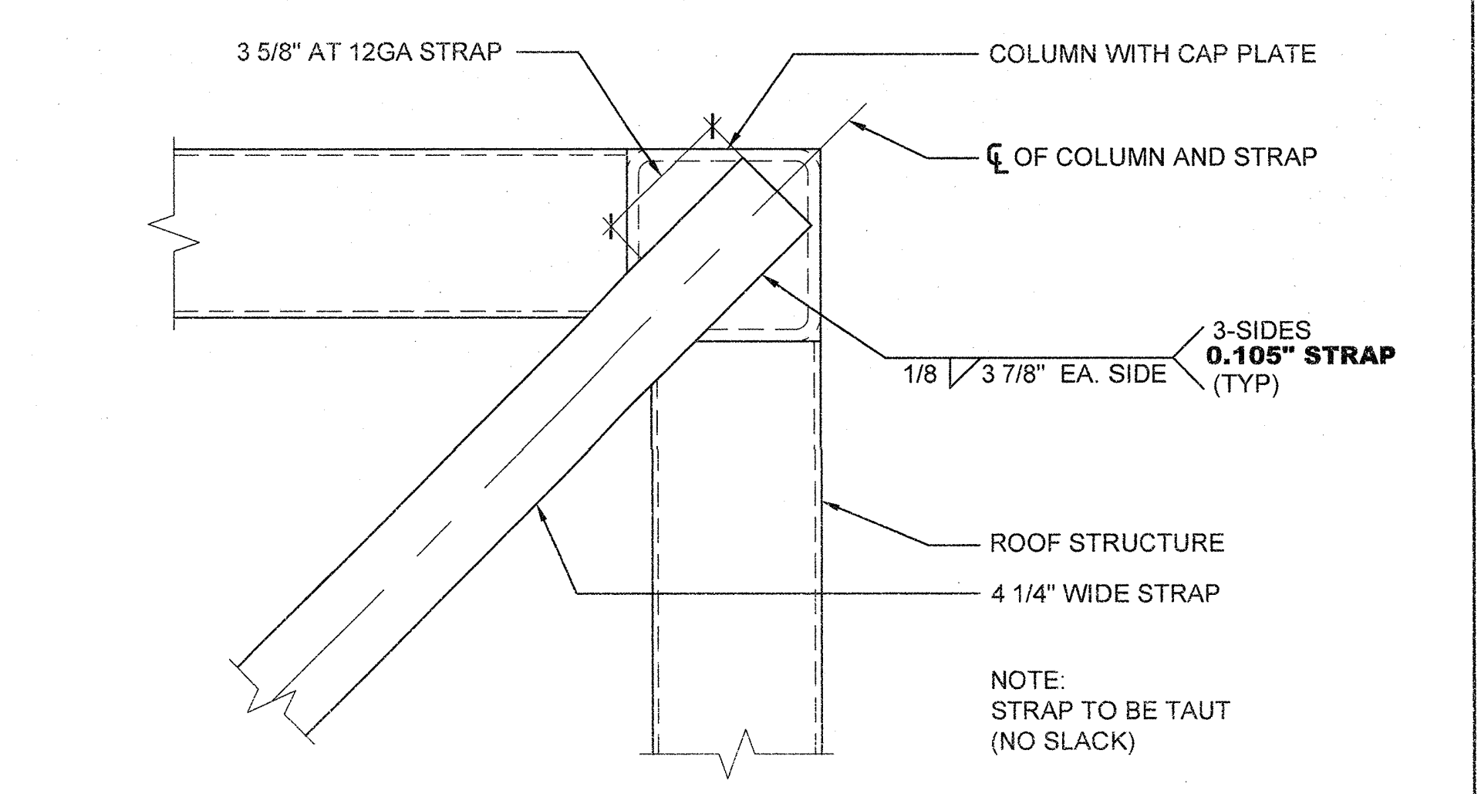
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

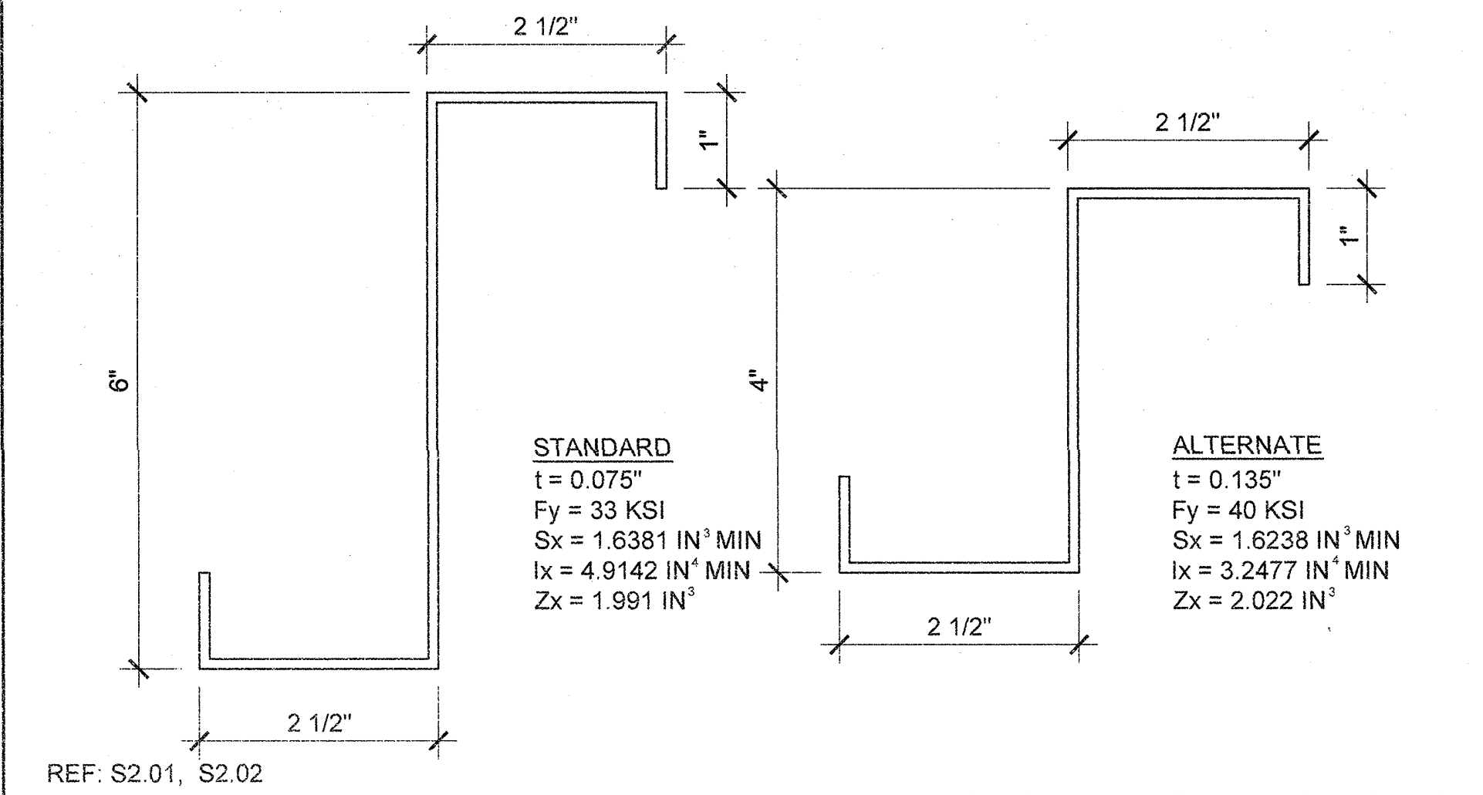
SHEET NUMBER

S-2.02-M1



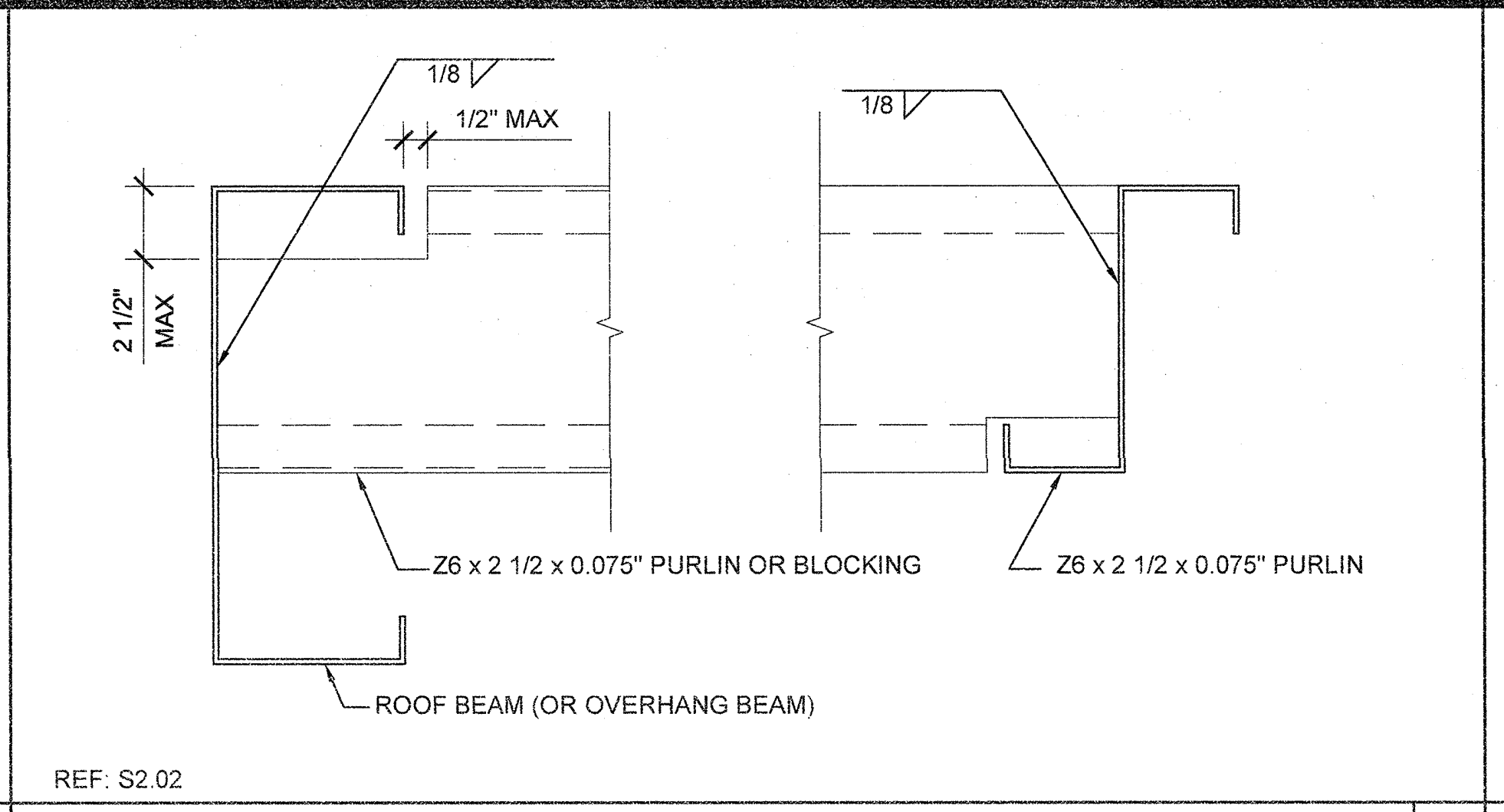
NOTE:
STRAP TO BE TAUT
(NO SLACK)

ROOF BRACING STRAP @ END WALL
SCALE : 3"=1'-0" 16



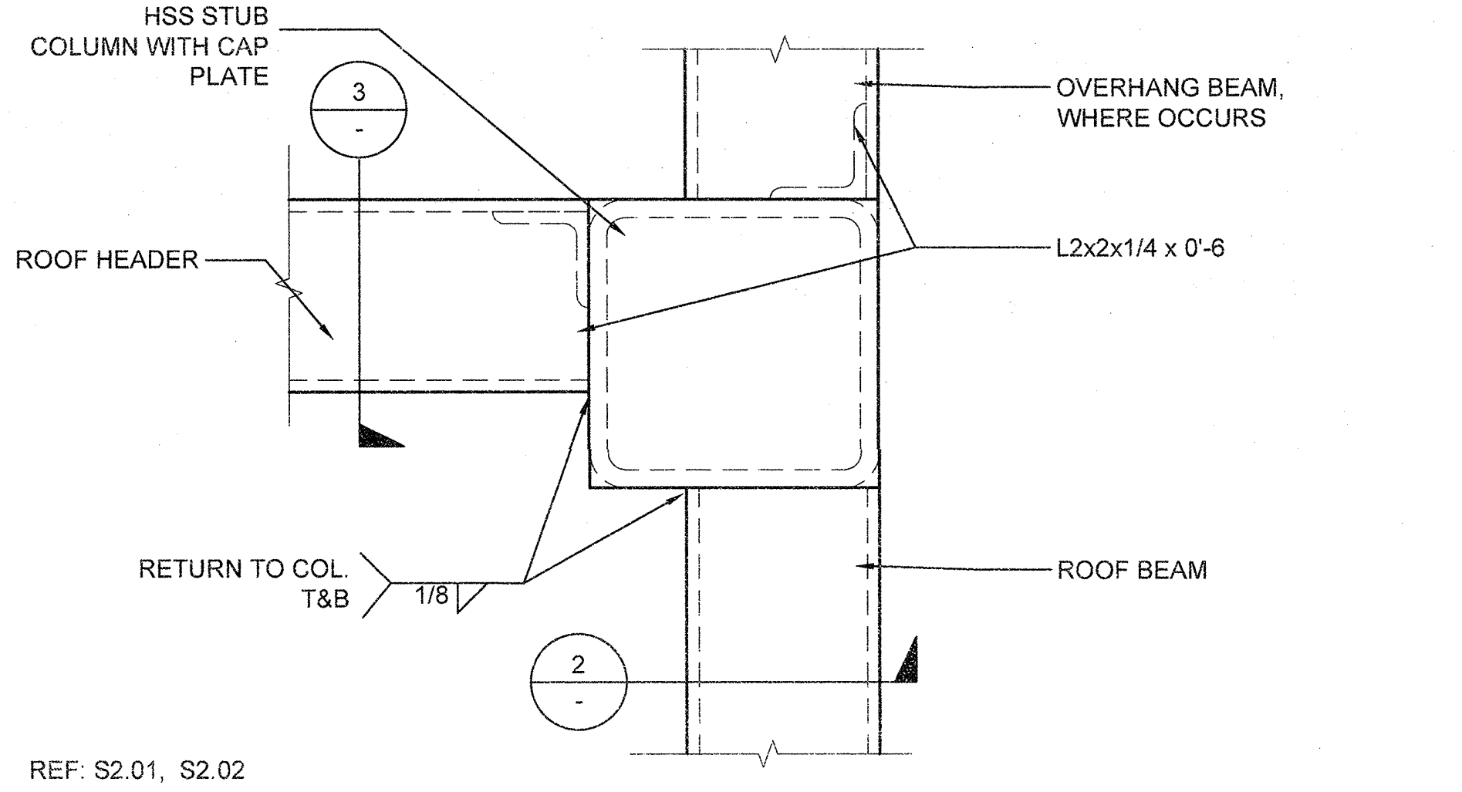
REF: S2.01, S2.02

ROOF PURLIN
SCALE : 6"=1'-0" 11


1/8
1/2" MAX
2 1/2" MAX
1/8
Z6 x 2 1/2 x 0.075" PURLIN OR BLOCKING
Z6 x 2 1/2 x 0.075" PURLIN
ROOF BEAM (OR OVERHANG BEAM)

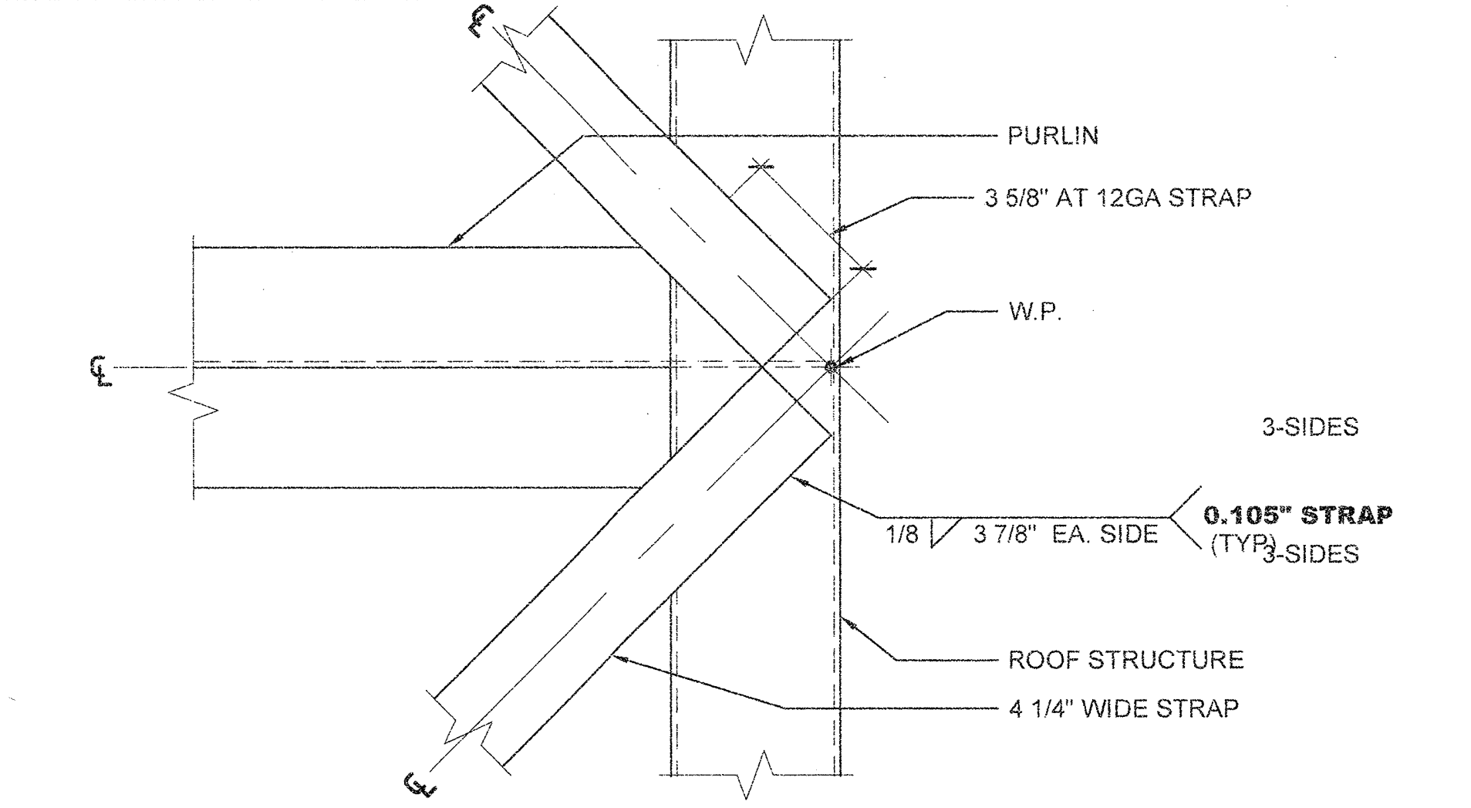
REF: S2.02

TYPICAL PURLIN CONNECTION DETAIL
SCALE : 3" = 1'-0" 6

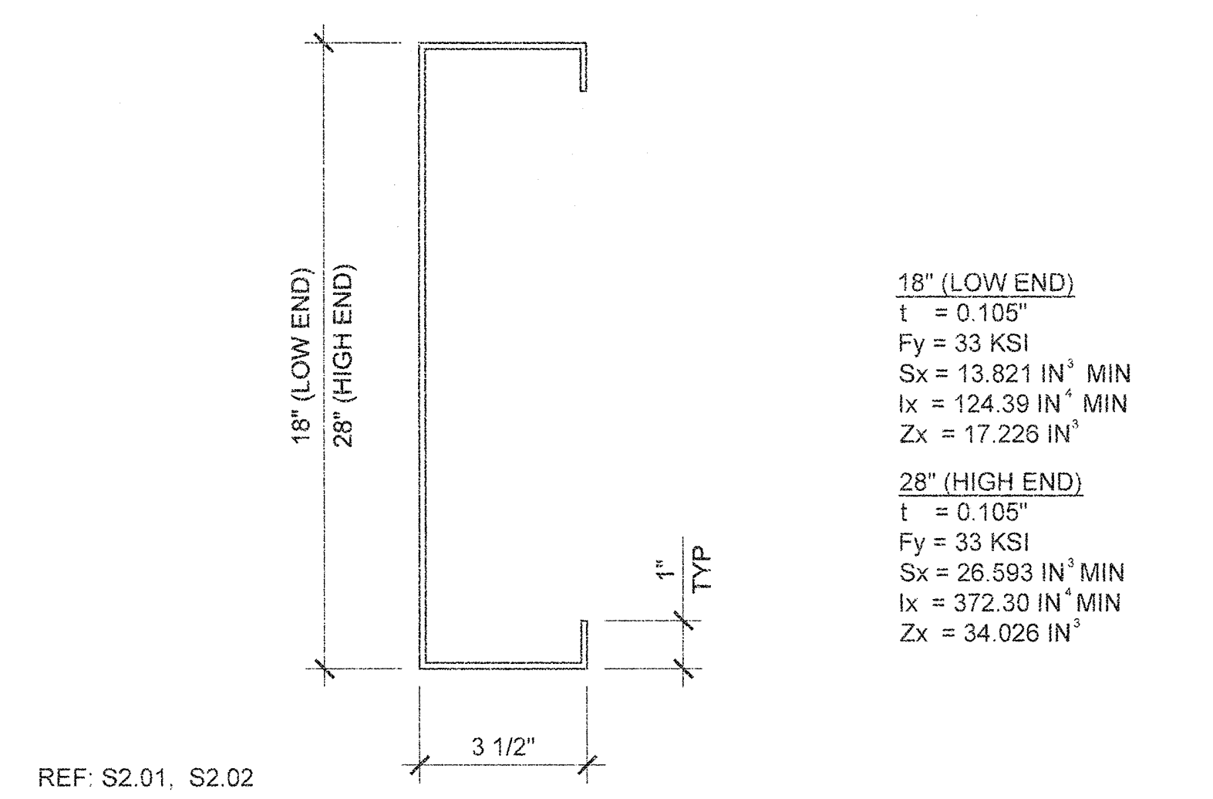


REF: S2.01, S2.02

COLUMN AT ROOF - PLAN
SCALE : 3" = 1'-0" 1

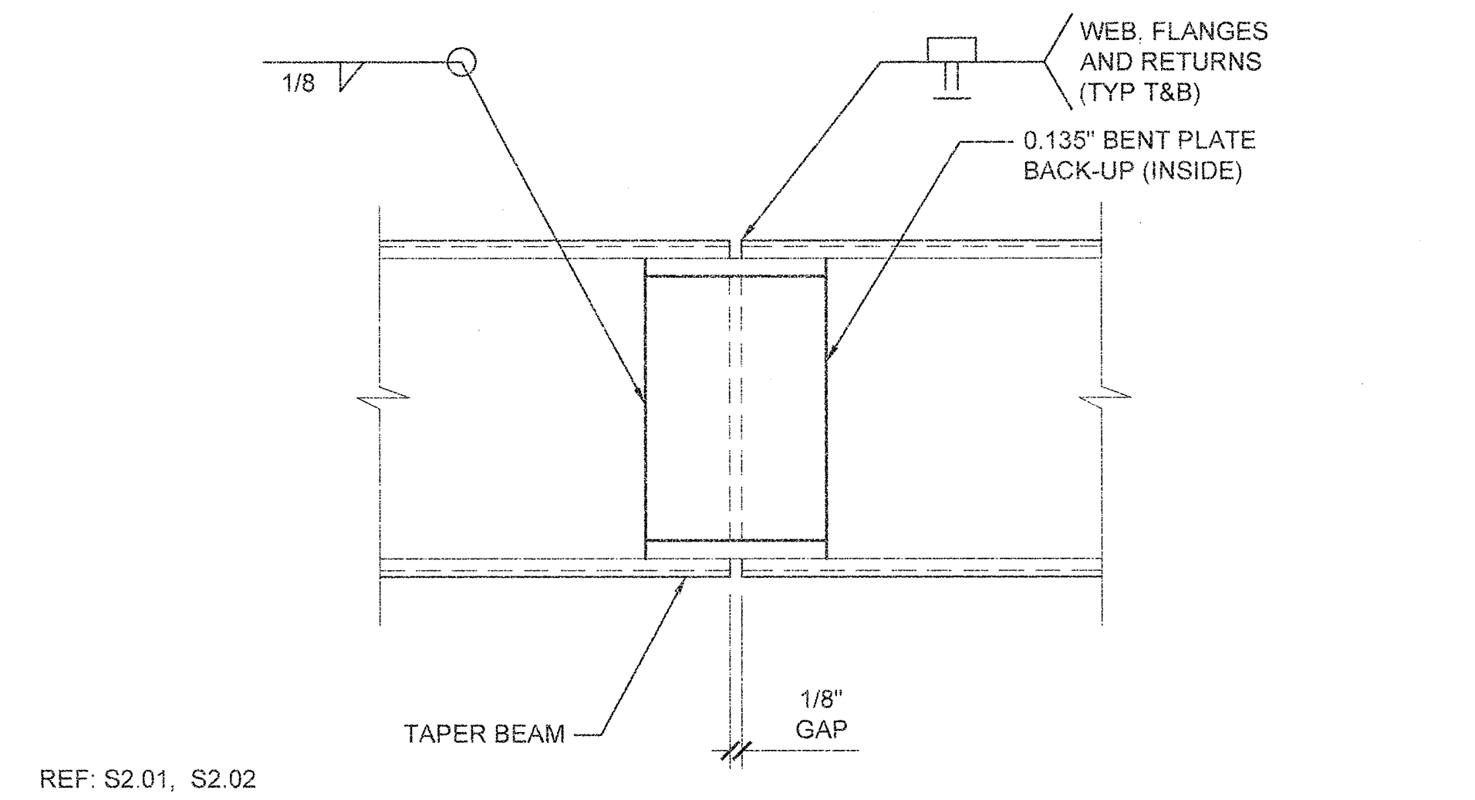


ROOF BRACING STRAP @ SIDE WALL
SCALE : 3"=1'-0" 17



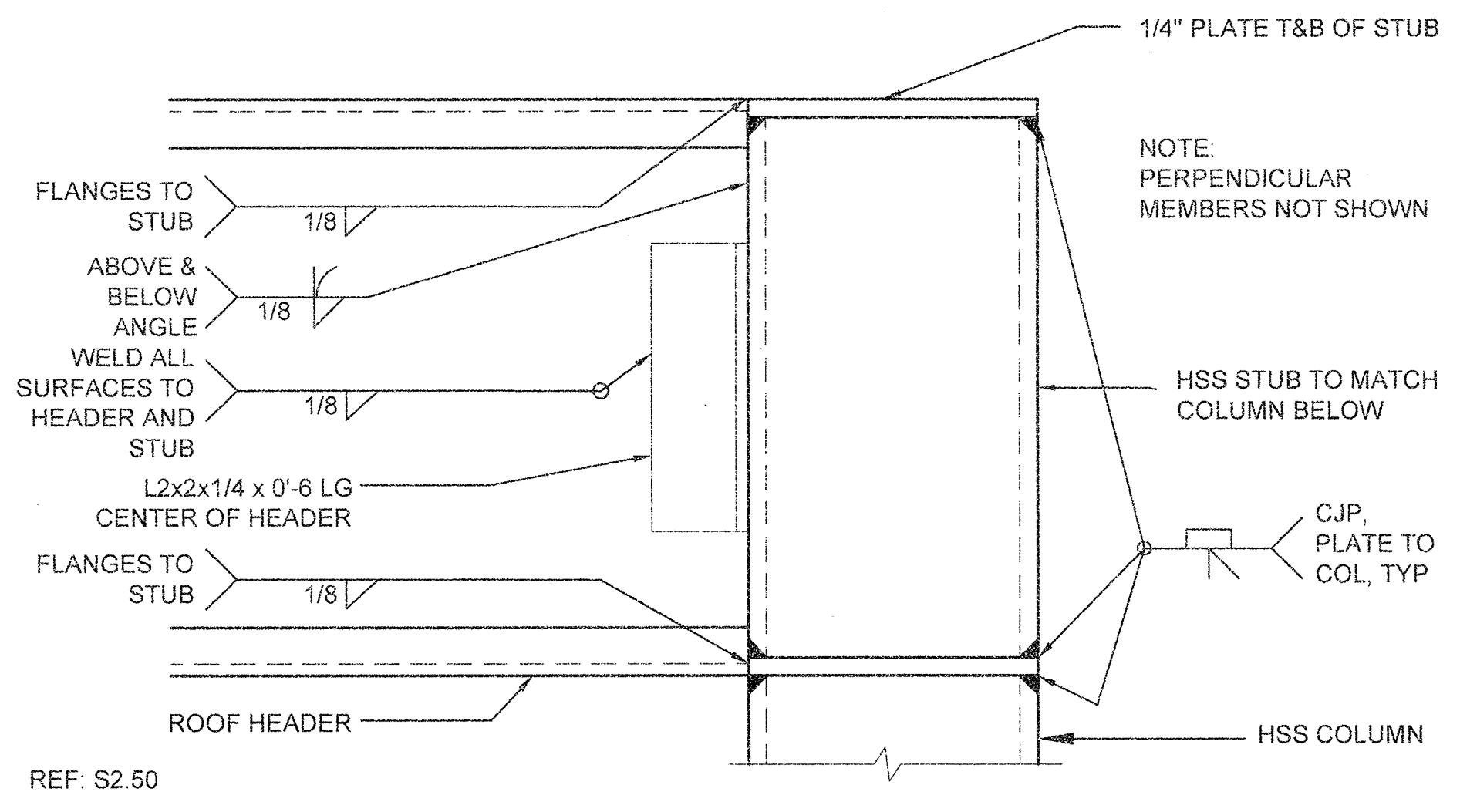
REF: S2.01, S2.02

ROOF HEADER
SCALE : NTS 12



REF: S2.01, S2.02

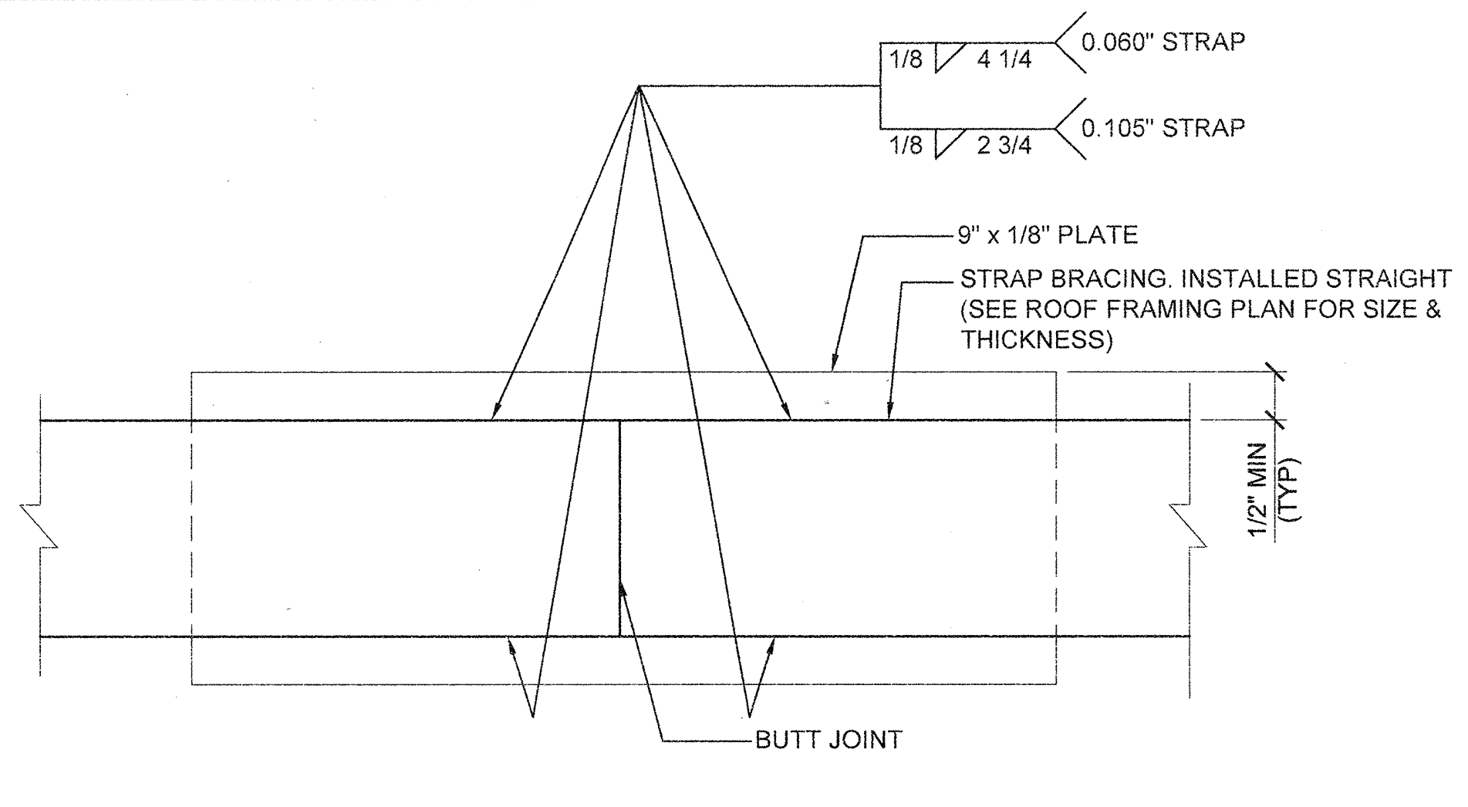
BEAM SPLICE
SCALE: 3" = 1'-0" 7



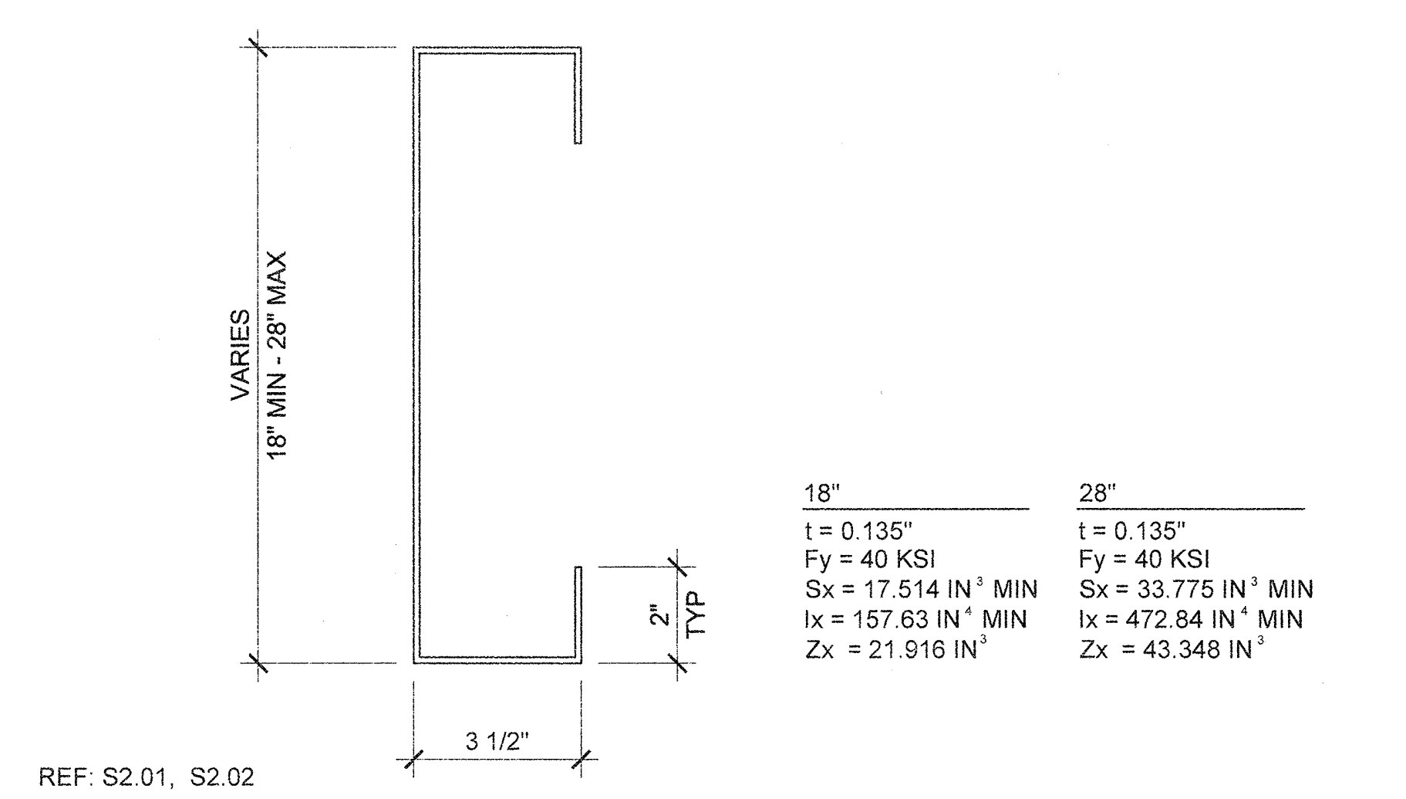
NOTE:
PERPENDICULAR
MEMBERS NOT SHOWN

REF: S2.50

COLUMN AT ROOF - SECTION
SCALE : 3" = 1'-0" 2

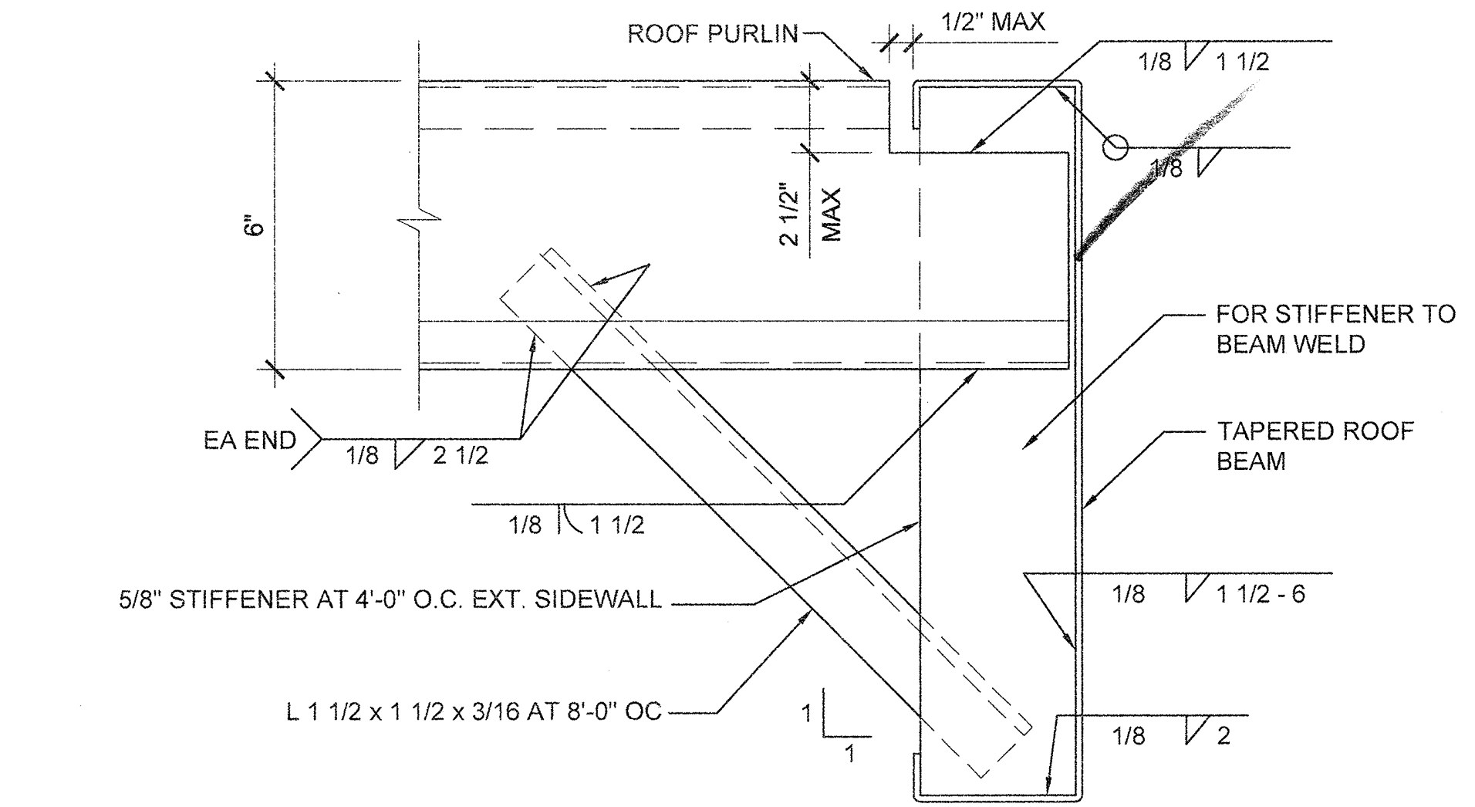


STRAP SPLICE DETAIL
SCALE : 6" = 1'-0" 18

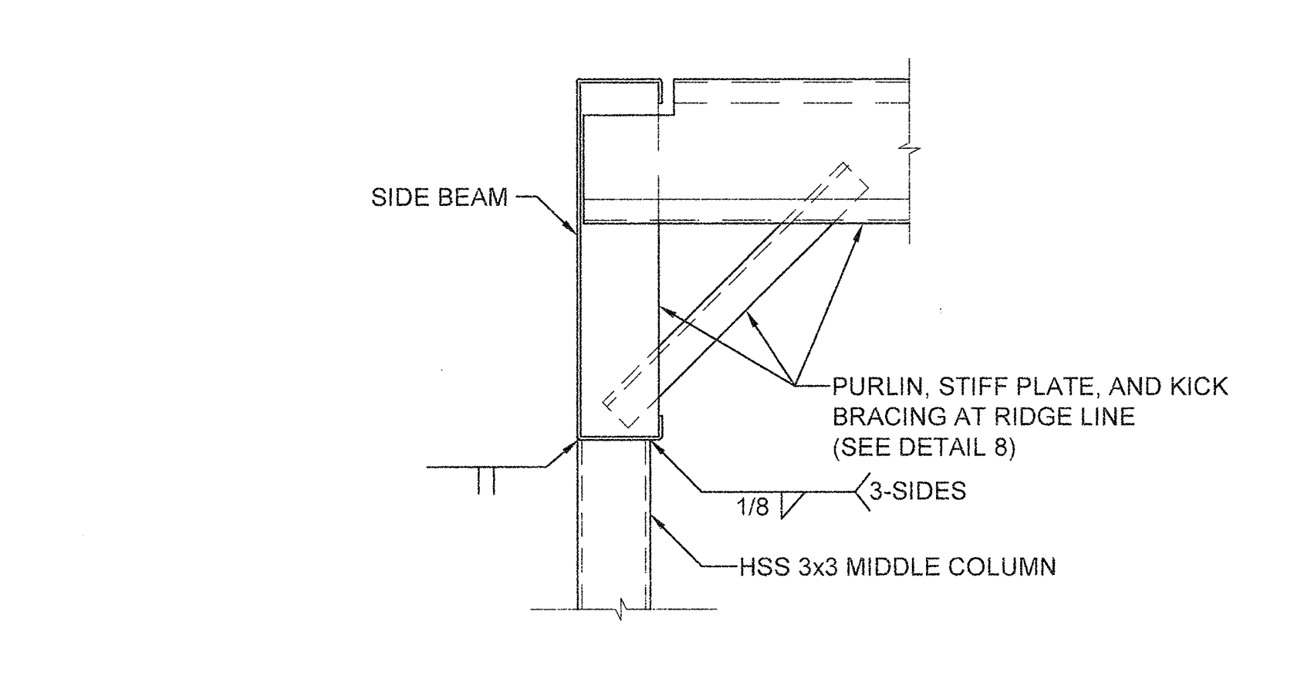


REF: S2.01, S2.02

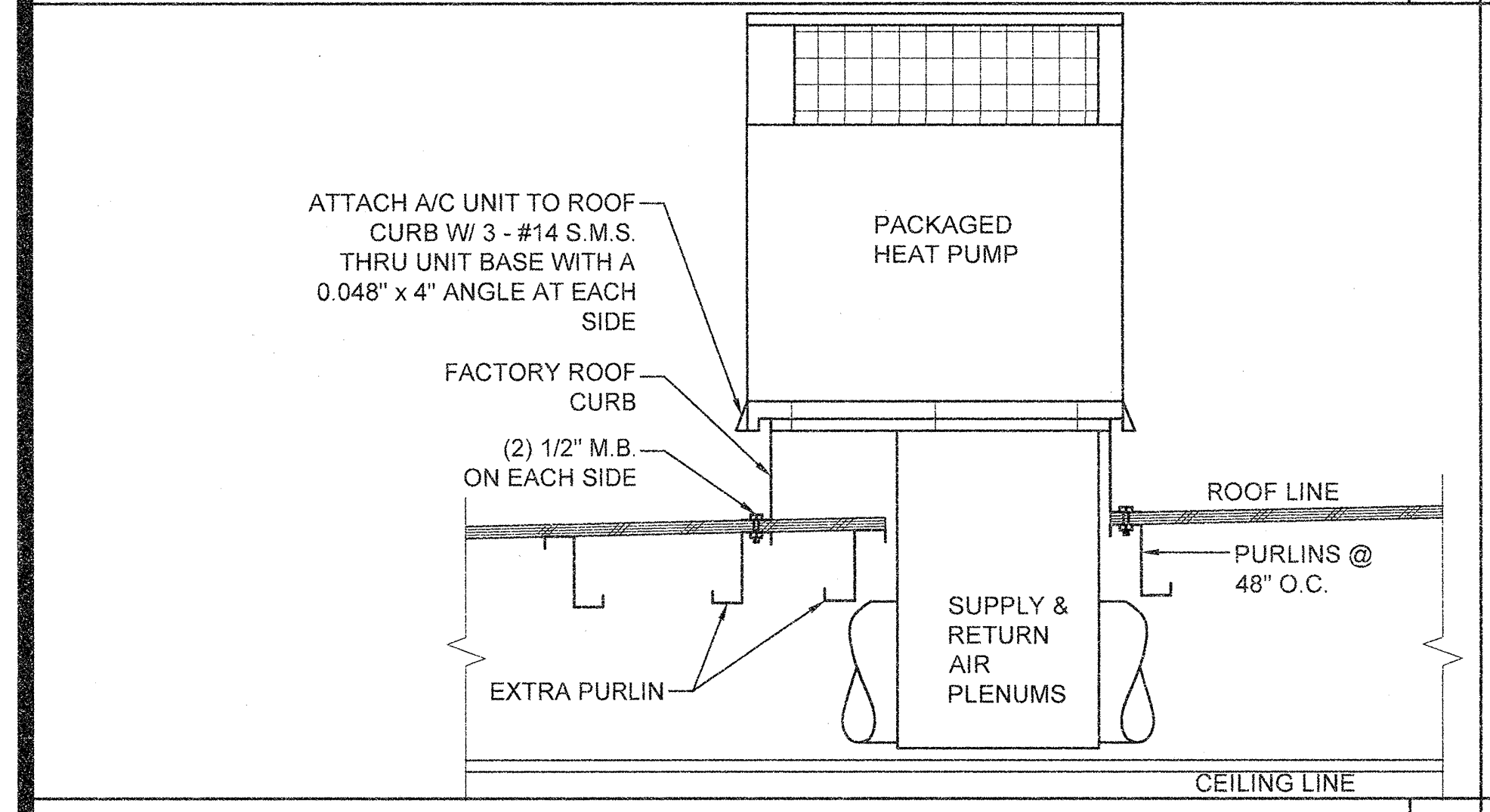
SIDE BEAM
SCALE : NTS 13



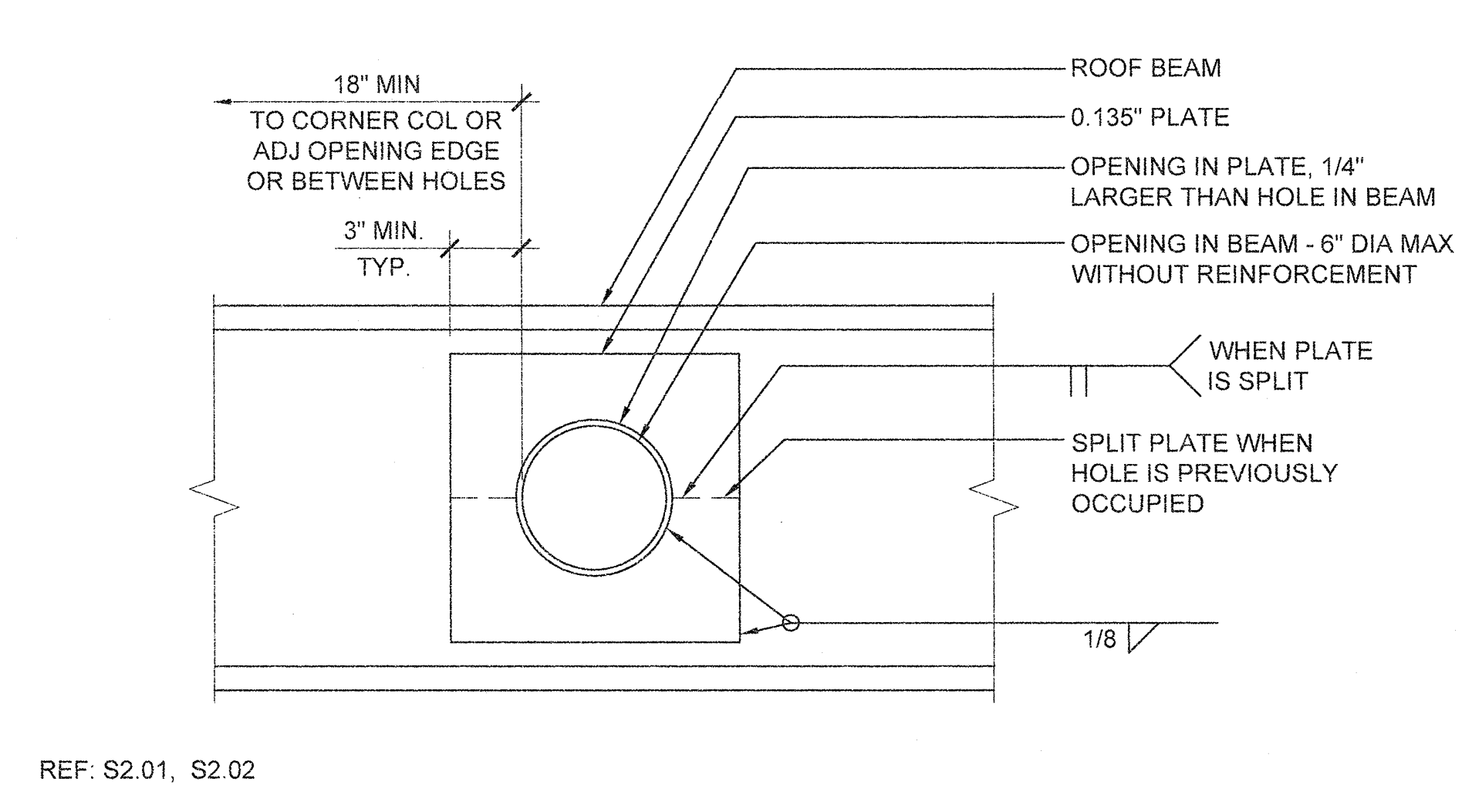
PURLIN TO ROOF BEAM @ STIFFENER
SCALE : 3"=1'-0" 8



MIDDLE COLUMN CONNECTION AT ROOF
SCALE : 1 1/2" = 1'-0" 3



HVAC CURB ATTACHMENT
SCALE : 3/4" = 1'-0" 19

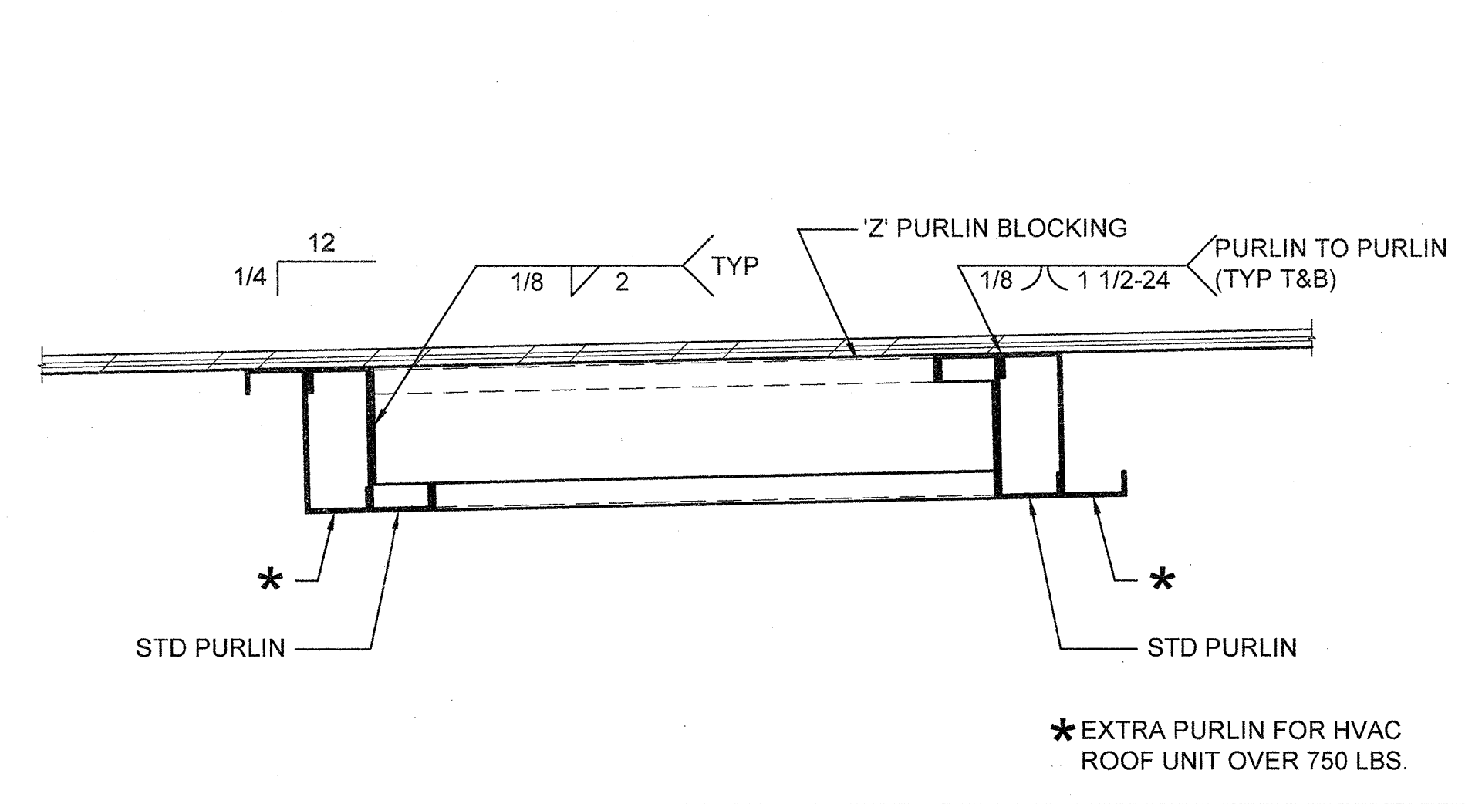


REF: S2.01, S2.02

SIDEWALL BEAM PENETRATION
SCALE : 1 1/2"=1'-0" 14

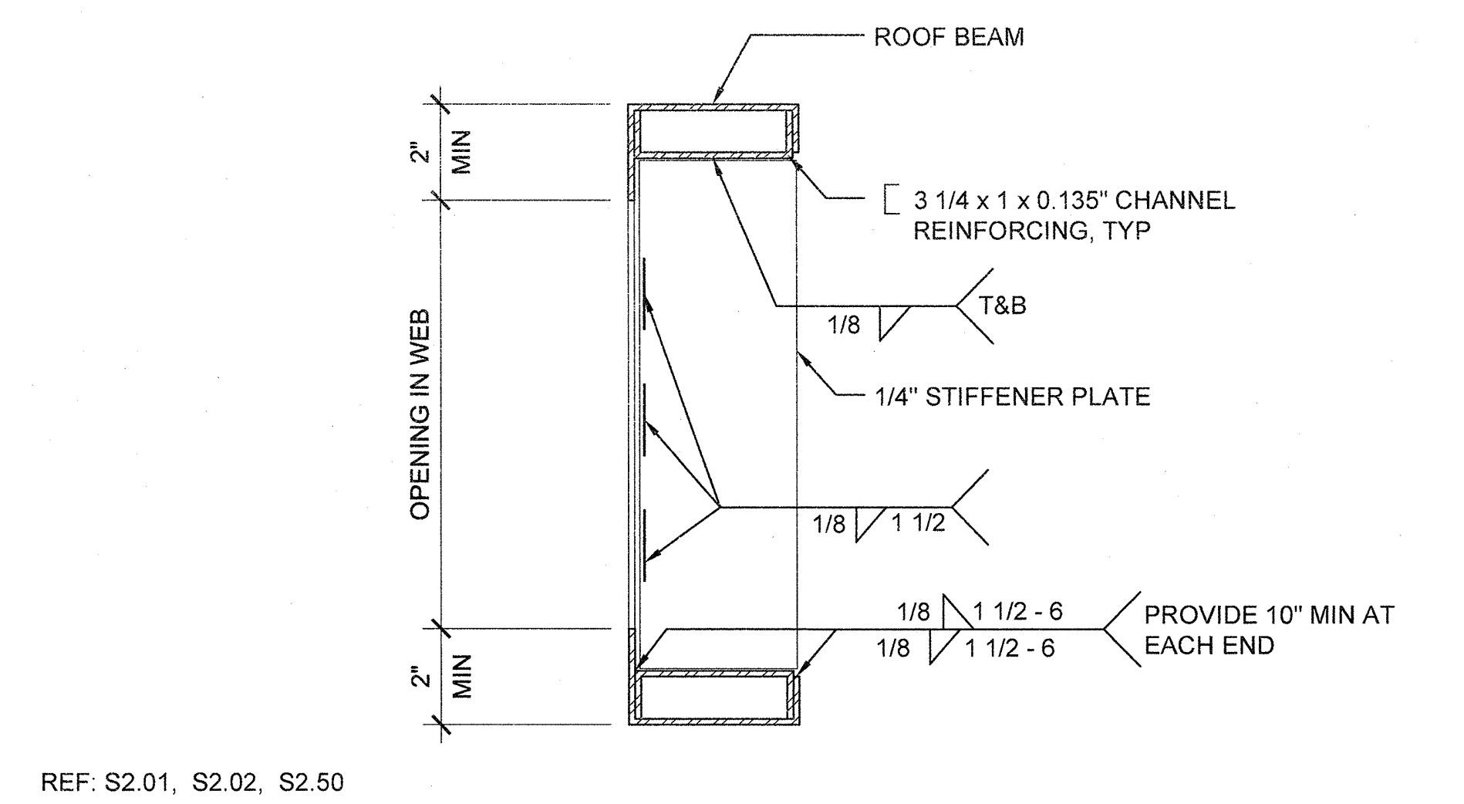
9

NOT USED
4



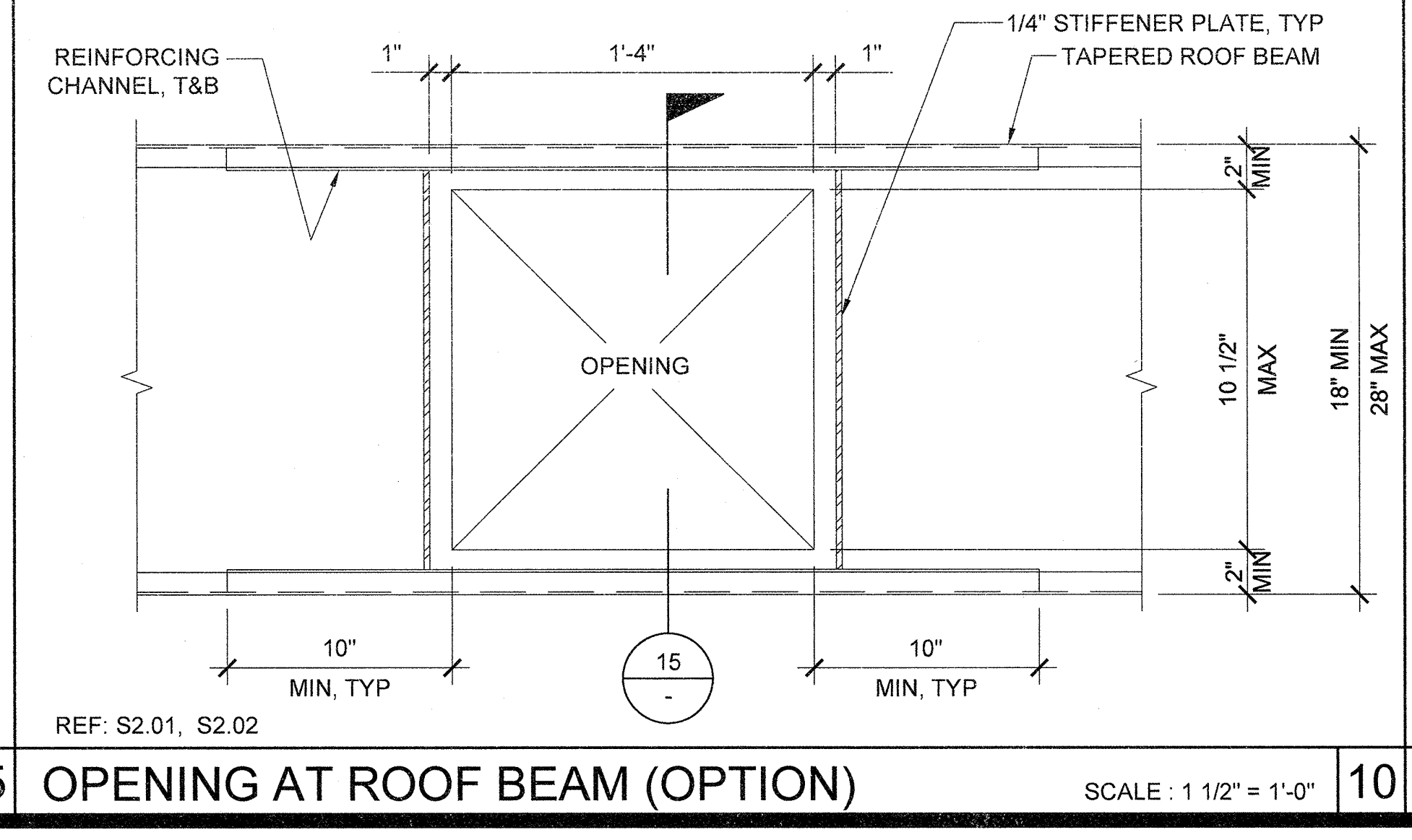
*EXTRA PURLIN FOR HVAC
ROOF UNIT OVER 750 LBS.

DOUBLE PURLINS AT HVAC
SCALE: 1 1/2" = 1'-0" 20



REF: S2.01, S2.02, S2.50

WEB OPENING AT ROOF BEAM (OPTION)
SCALE : 3" = 1'-0" 15



REF: S2.01, S2.02

OPENING AT ROOF BEAM (OPTION)
SCALE : 1 1/2" = 1'-0" 10

NOT USED
5

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SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF FRAMING
DETAILS
MONO SLOPE

MANNY D. FRISCH
No. S3380
RST# 15008
02/02/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS
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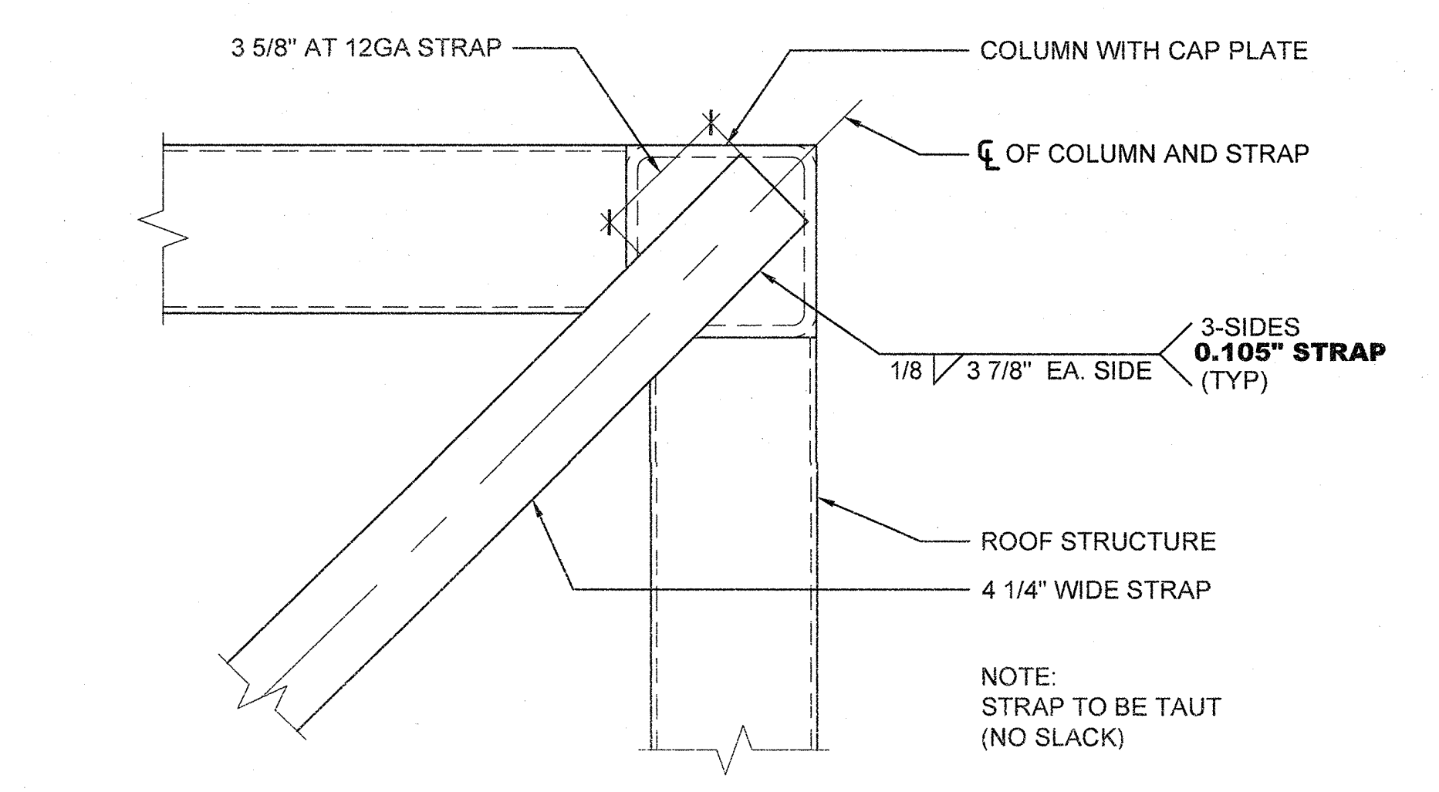
SILVER CREEK INDUSTRIES

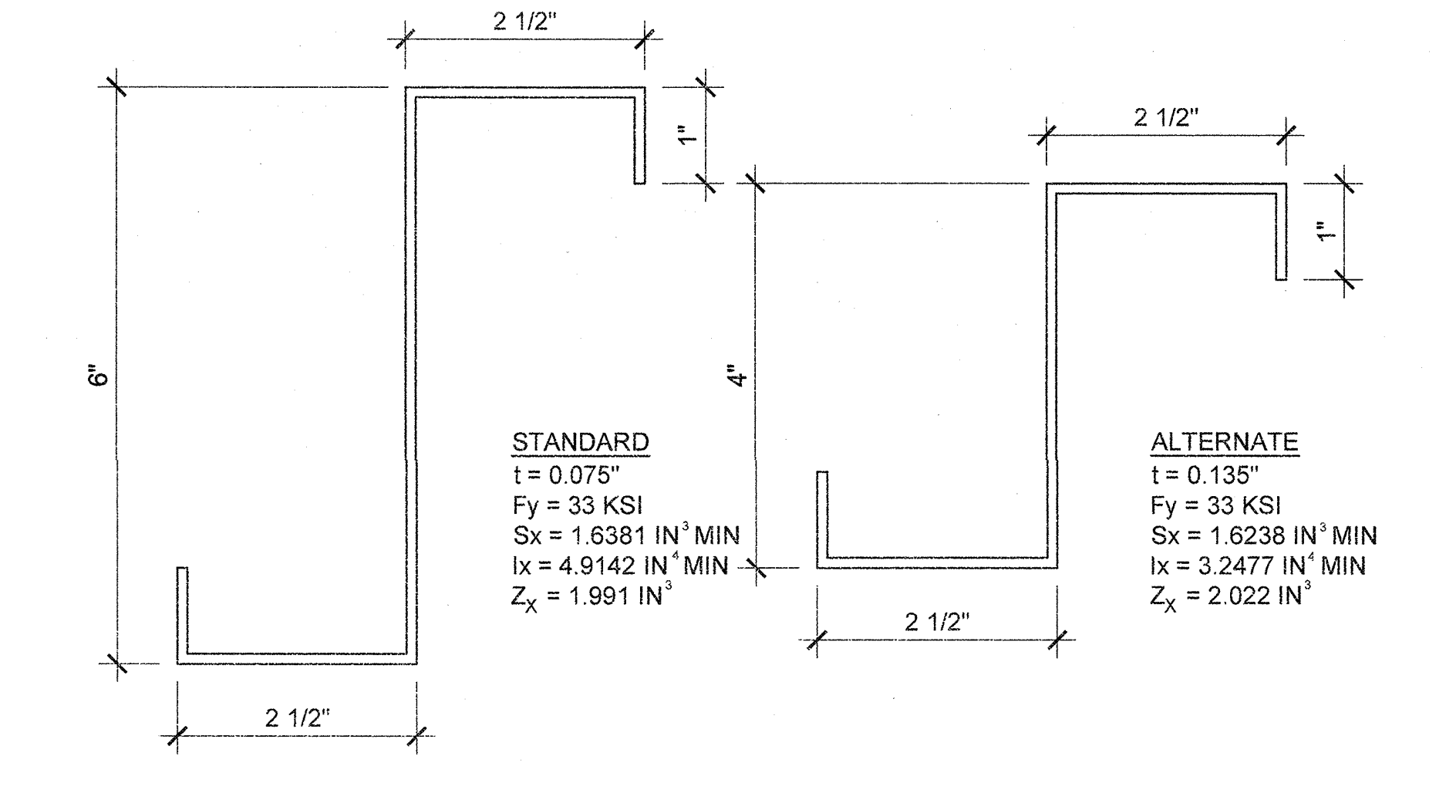
PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

S-2.50-M1



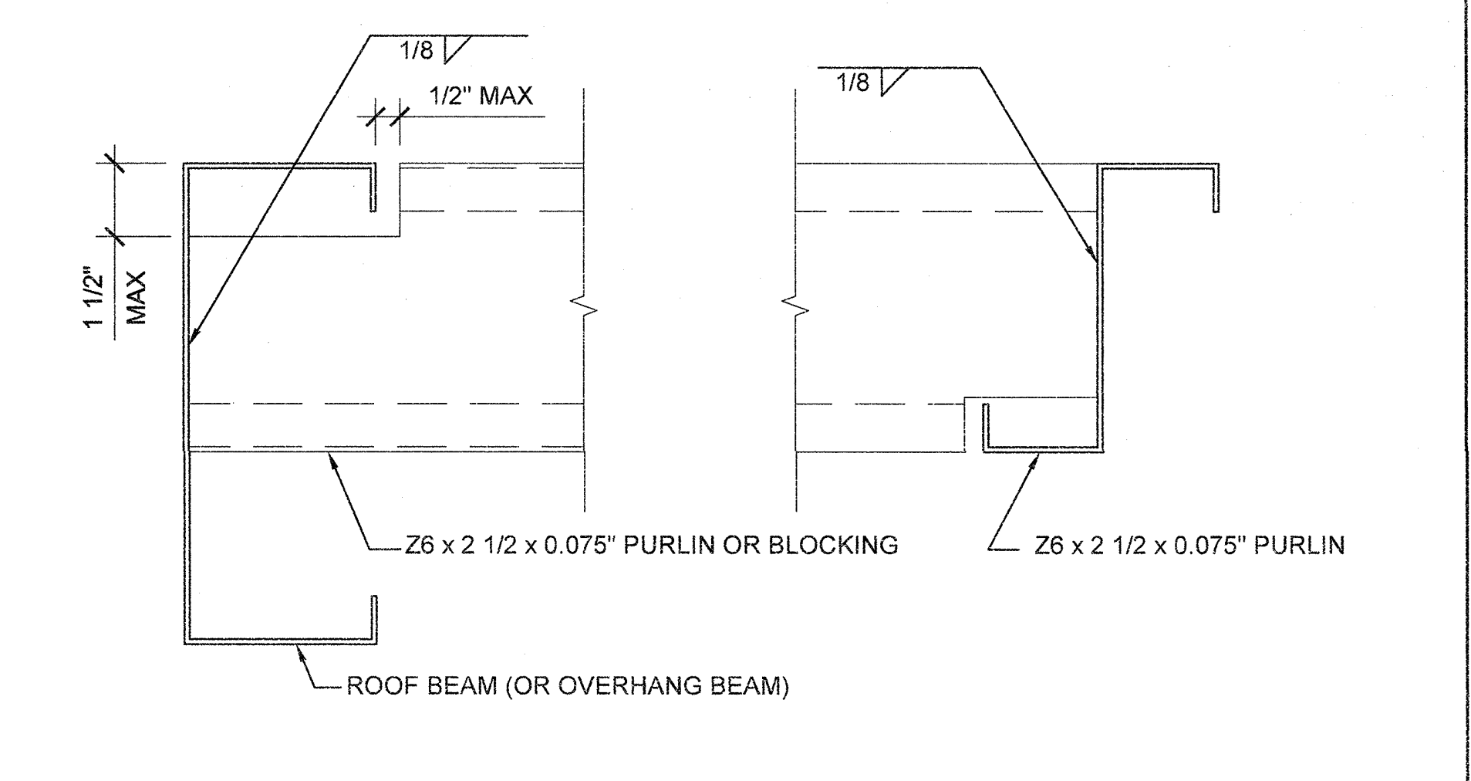
ROOF BRACING STRAP @ END WALL
SCALE : 3"=1'-0" 16



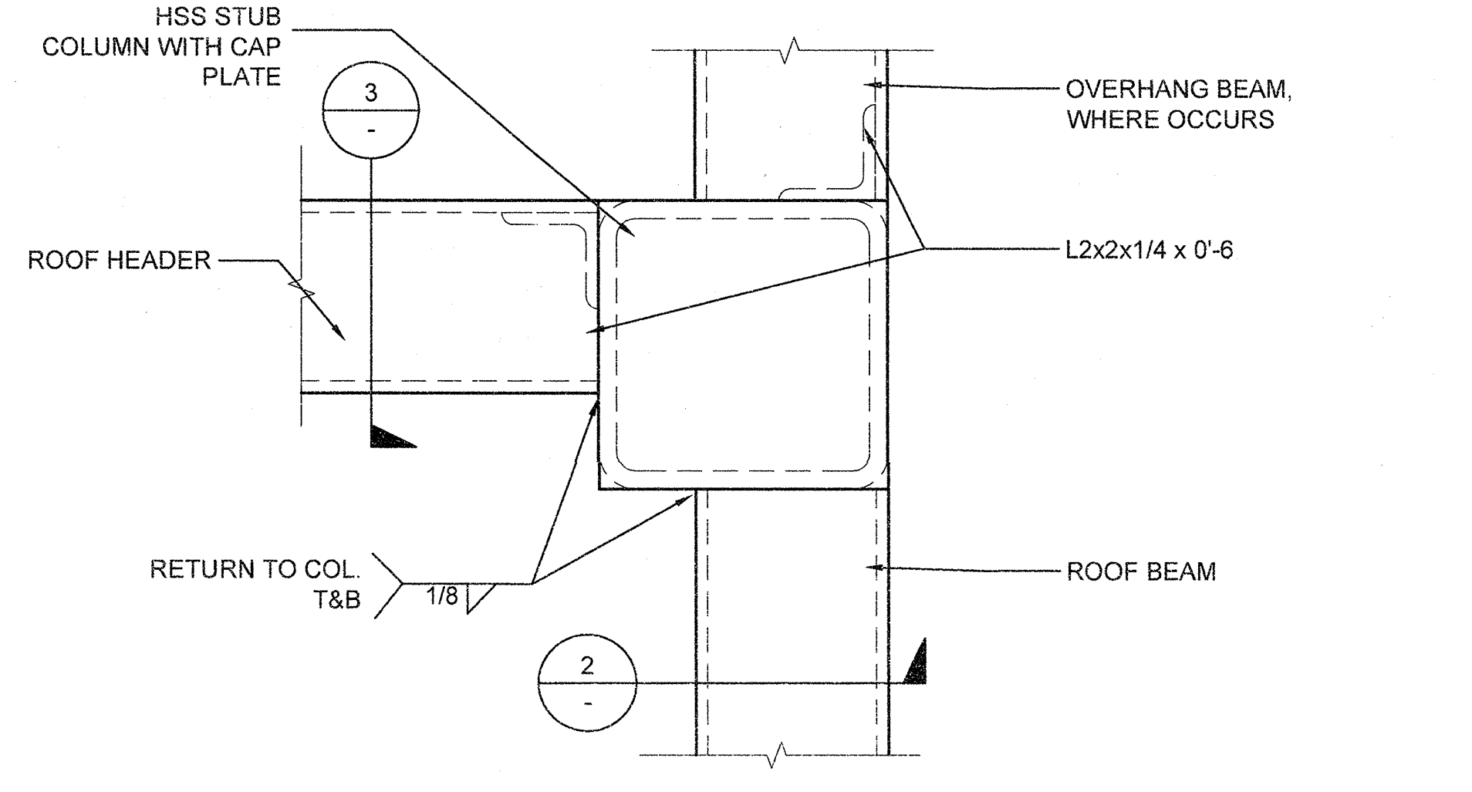
STANDARD
t = 0.075"
Fy = 33 KSI
Sx = 1.6381 IN³ MIN
Ix = 4.9142 IN⁴ MIN
Z_X = 1.991 IN³

ALTERNATE
t = 0.135"
Fy = 33 KSI
Sx = 1.6238 IN³ MIN
Ix = 3.2477 IN⁴ MIN
Z_X = 2.022 IN³

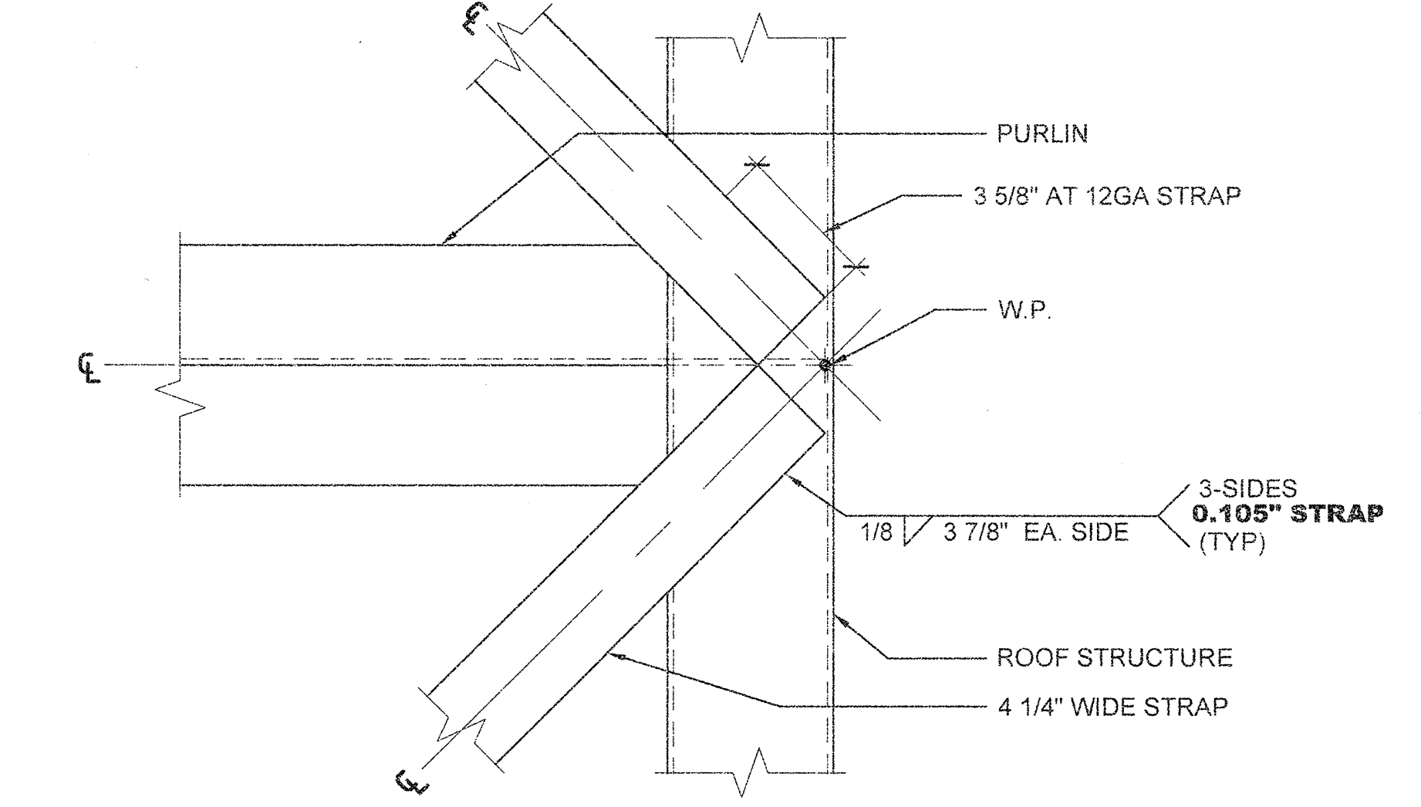
ROOF PURLIN
SCALE : 6"=1'-0" 11


1/8
1/2" MAX
1 1/2" MAX
1/8
Z6 x 2 1/2 x 0.075" PURLIN OR BLOCKING
Z6 x 2 1/2 x 0.075" PURLIN
ROOF BEAM (OR OVERHANG BEAM)

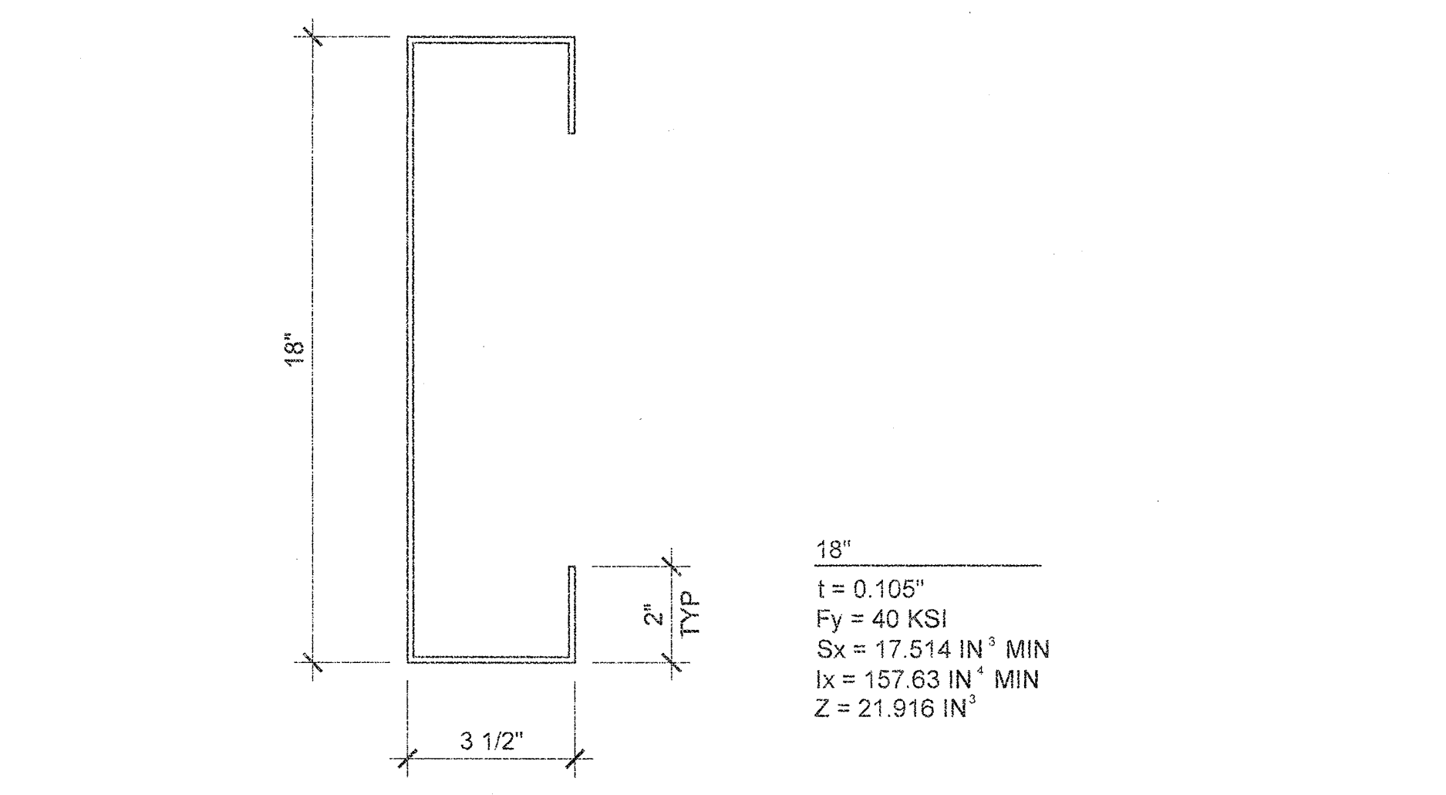
TYPICAL PURLIN CONNECTION DETAIL
SCALE : 3" = 1'-0" 6



COLUMN AT ROOF - PLAN
SCALE : 3" = 1'-0" 1

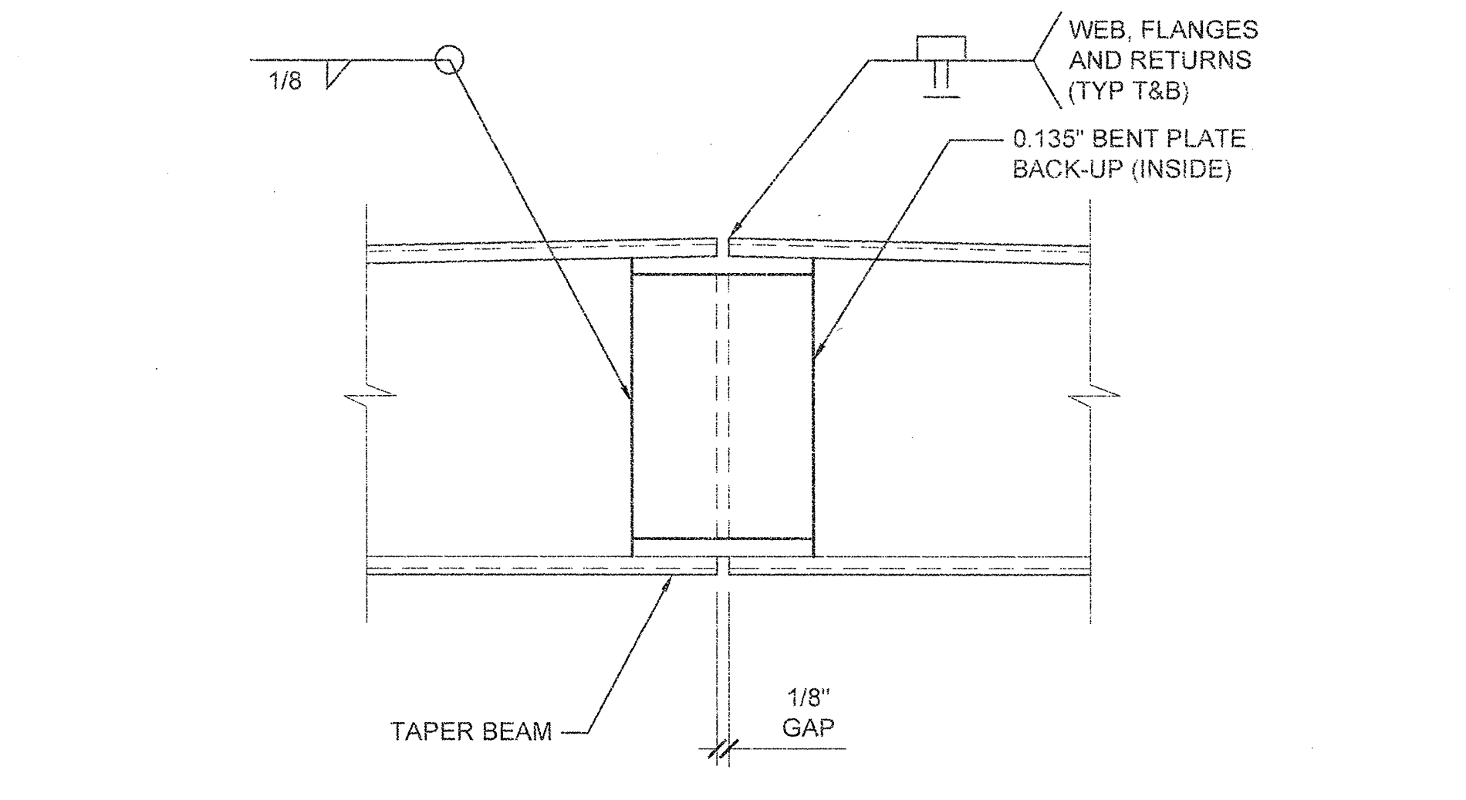


ROOF BRACING STRAP @ SIDE WALL
SCALE : 3"=1'-0" 17

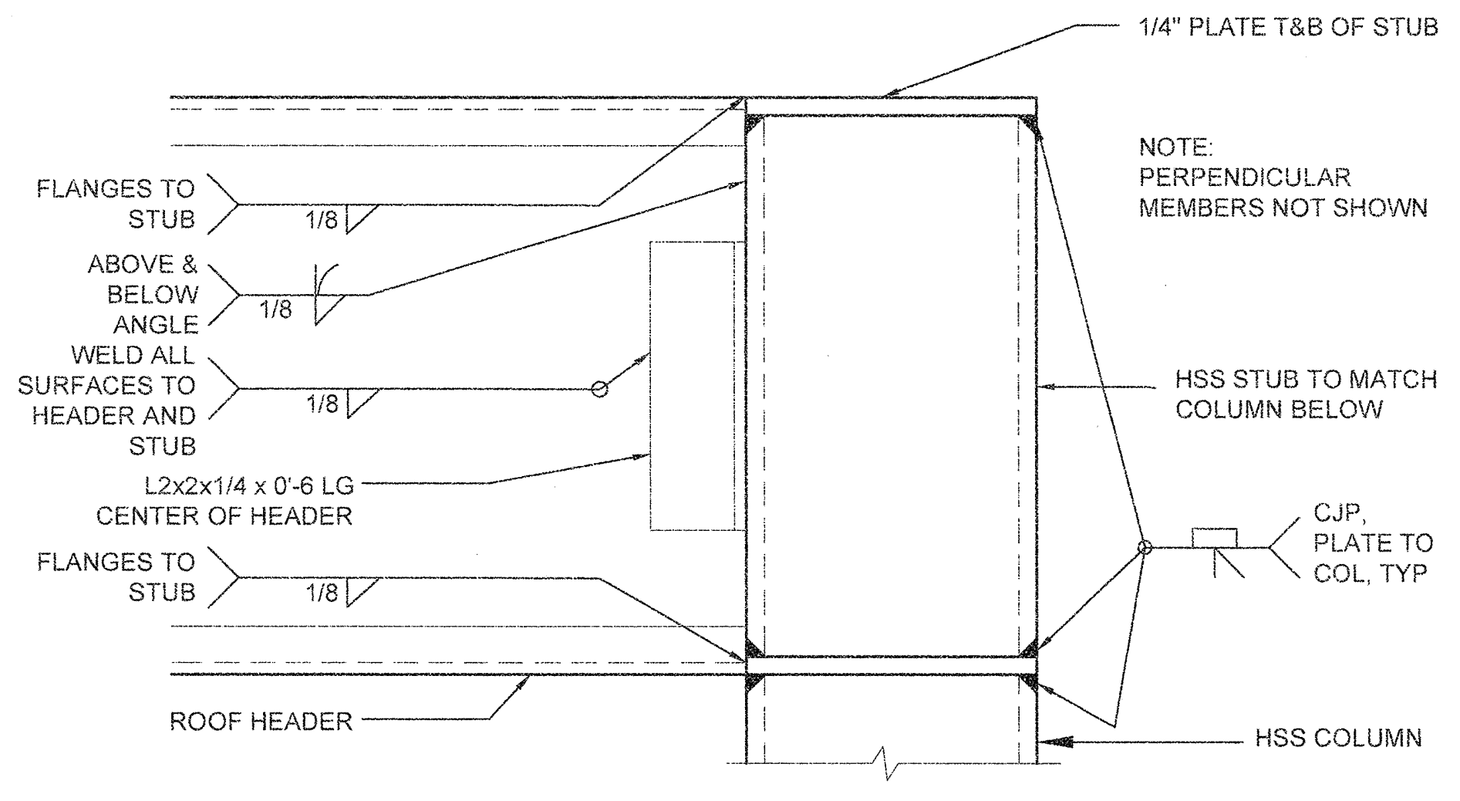


18"
t = 0.105"
Fy = 40 KSI
Sx = 17.514 IN³ MIN
Ix = 157.63 IN⁴ MIN
Z = 21.916 IN³

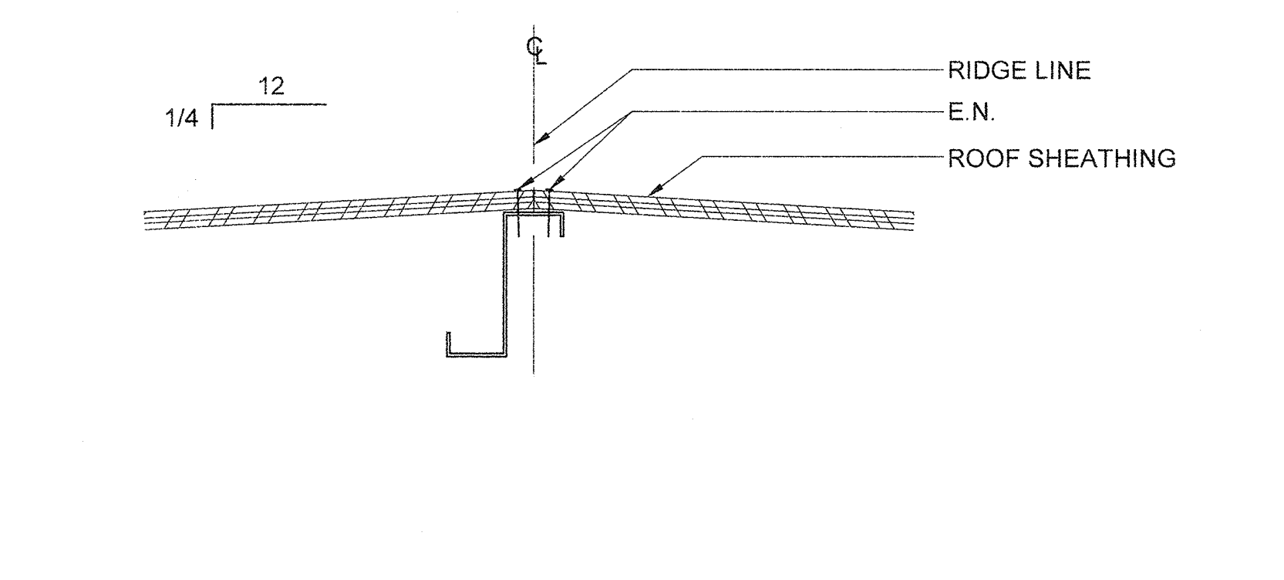
ROOF HEADER
SCALE : NTS 12



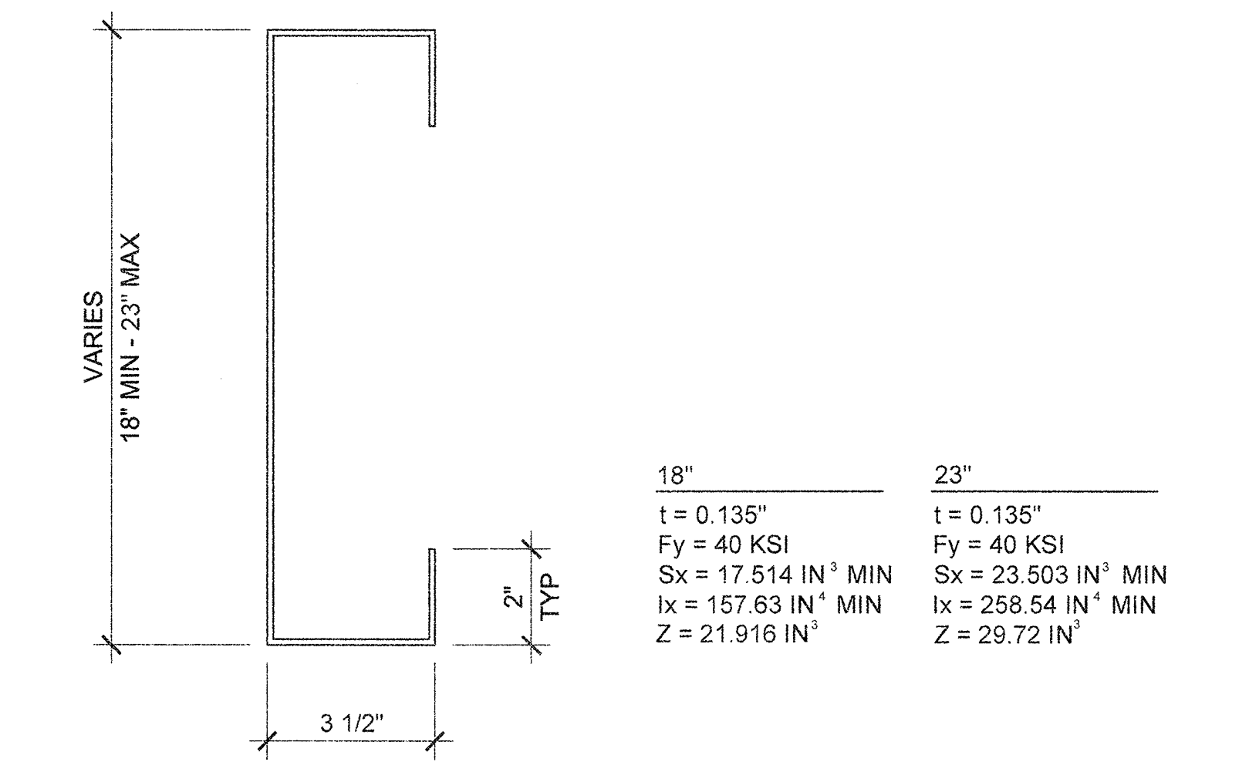
BEAM SPLICE
SCALE: 3" = 1'-0" 7



COLUMN AT ROOF - SECTION
SCALE : 3" = 1'-0" 2

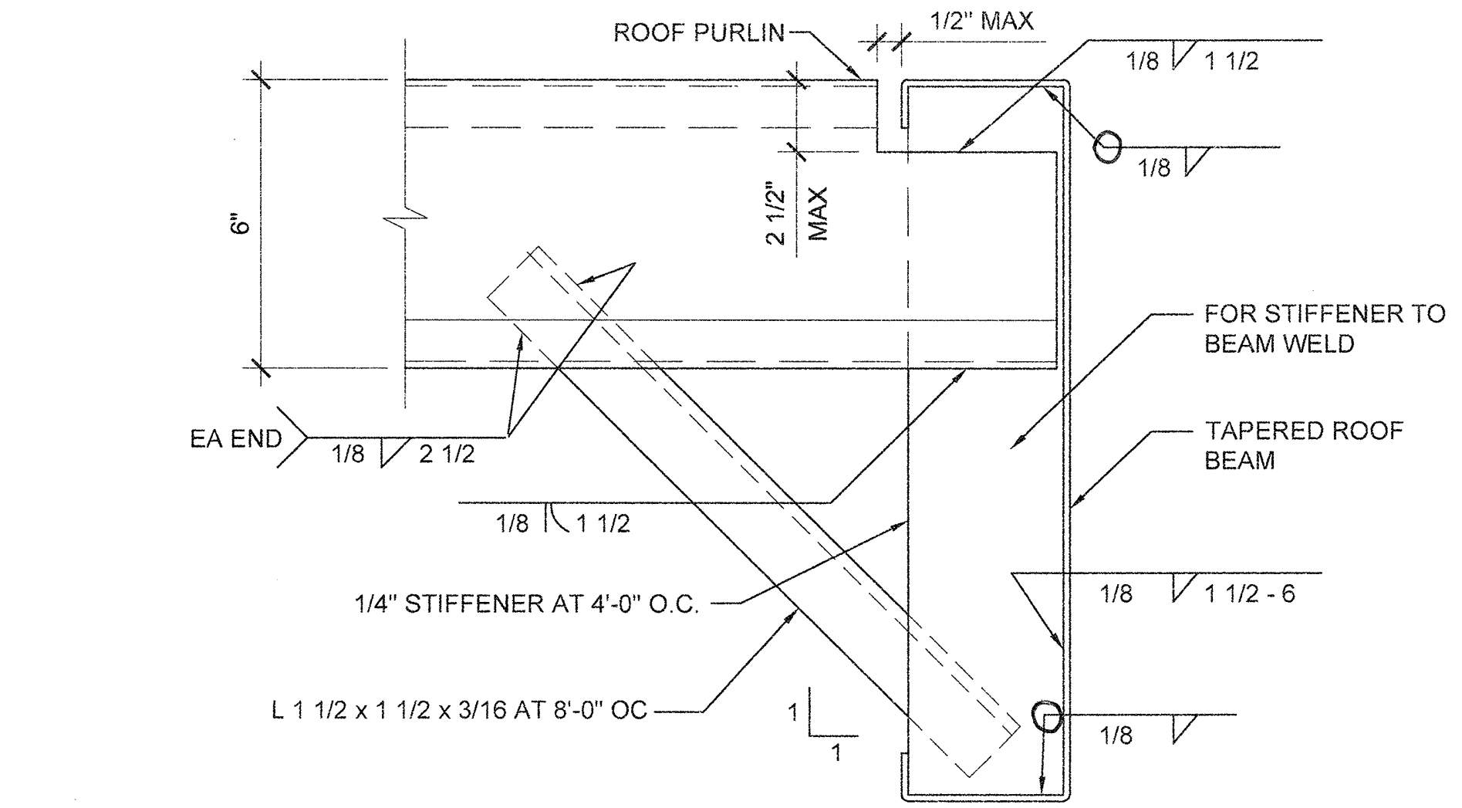


PURLINS AT PLYWOOD ROOF RIDGE
SCALE : 1 1/2"=1'-0" 18



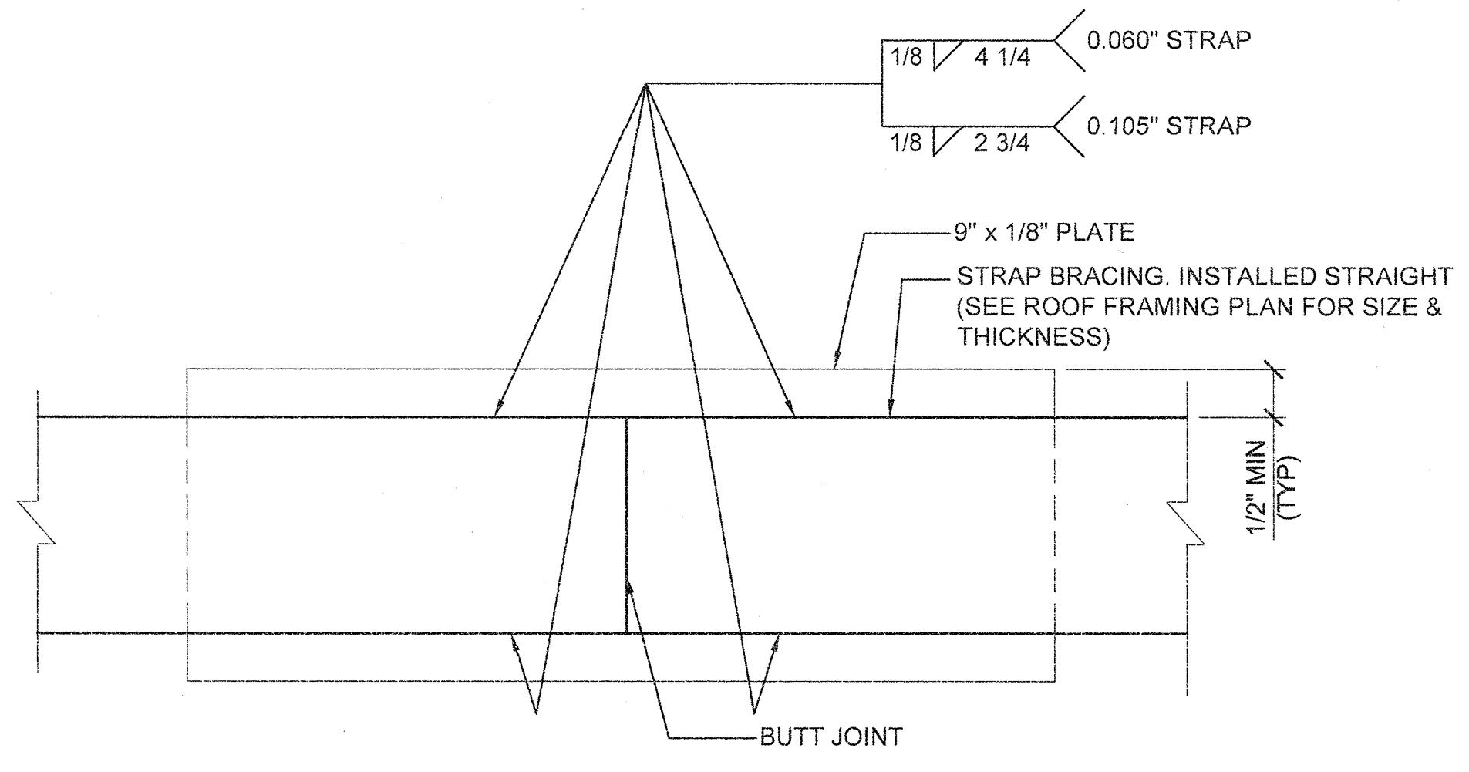
18"	23"
t = 0.135"	t = 0.135"
Fy = 40 KSI	Fy = 40 KSI
Sx = 17.514 IN³ MIN	Sx = 23.503 IN³ MIN
Ix = 157.63 IN⁴ MIN	Ix = 258.54 IN⁴ MIN
Z = 21.916 IN³	Z = 29.72 IN³

SIDE BEAM
SCALE : NTS 13

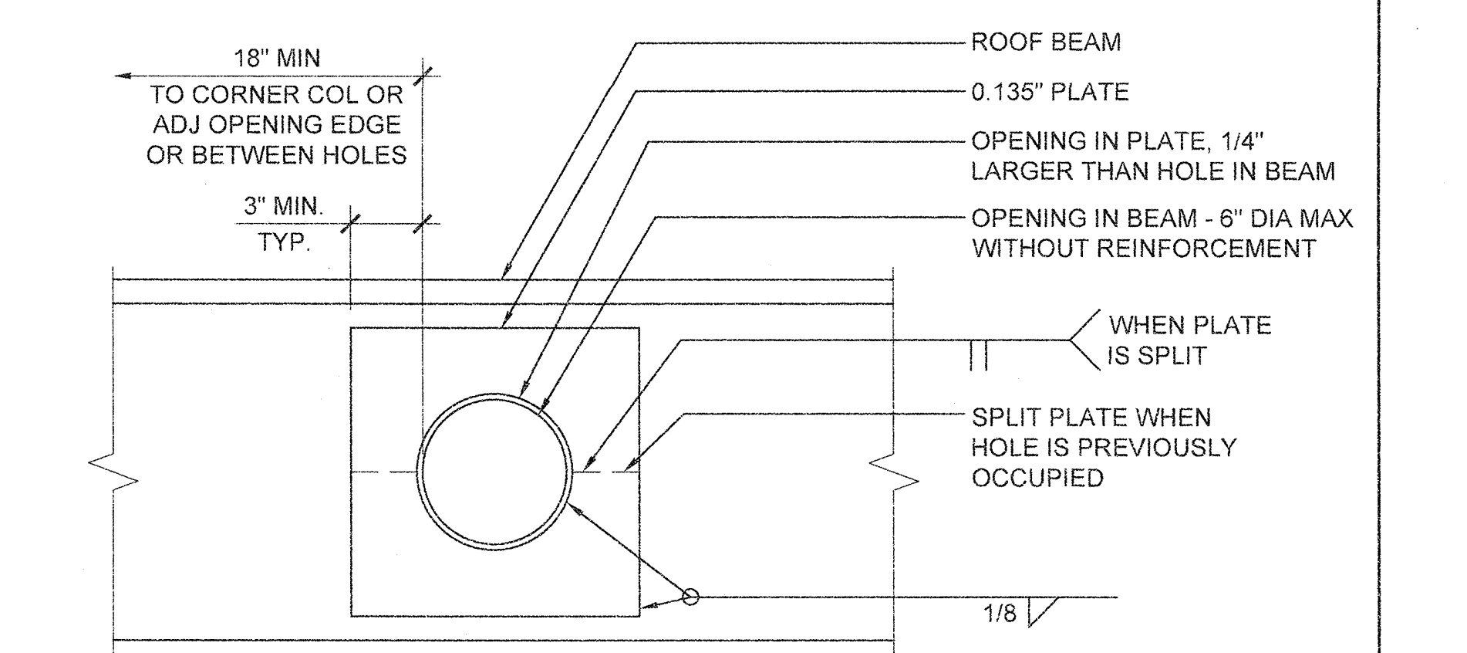


PURLIN TO ROOF BEAM @ STIFFENER
8

NOT USED
3



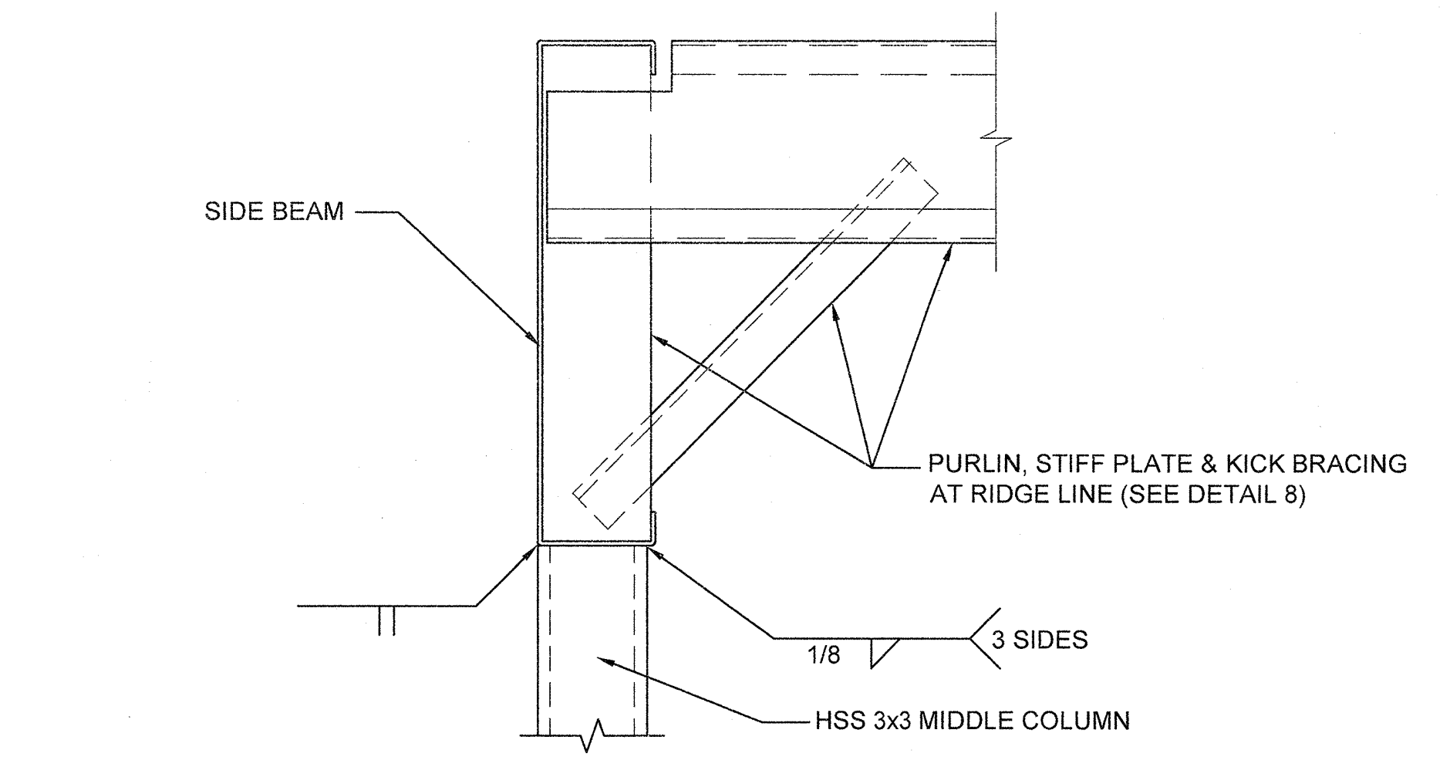
STRAP SPLICE DETAIL
SCALE : 6" = 1'-0" 19



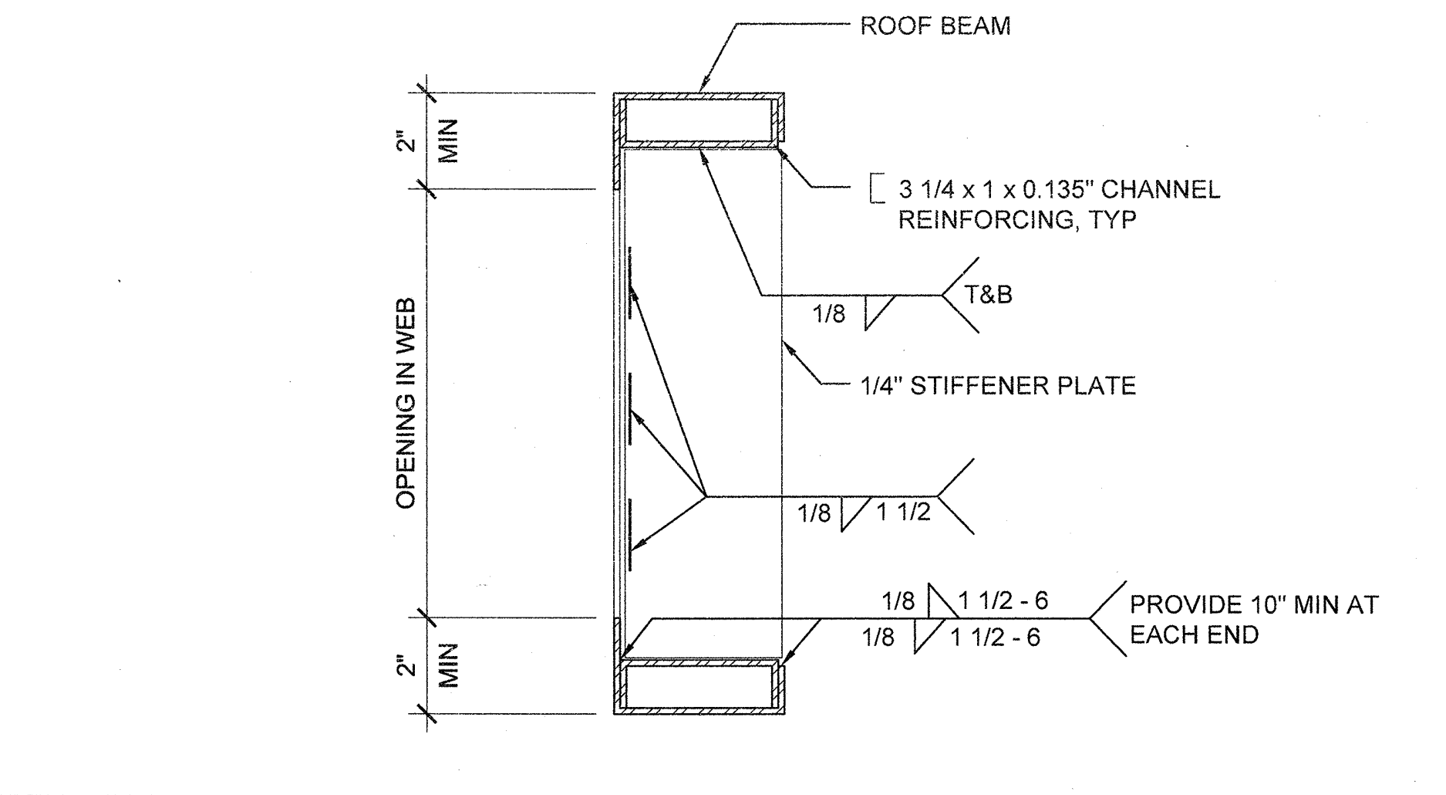
SIDEWALL BEAM PENETRATION
SCALE : 1 1/2"=1'-0" 14

NOT USED
9

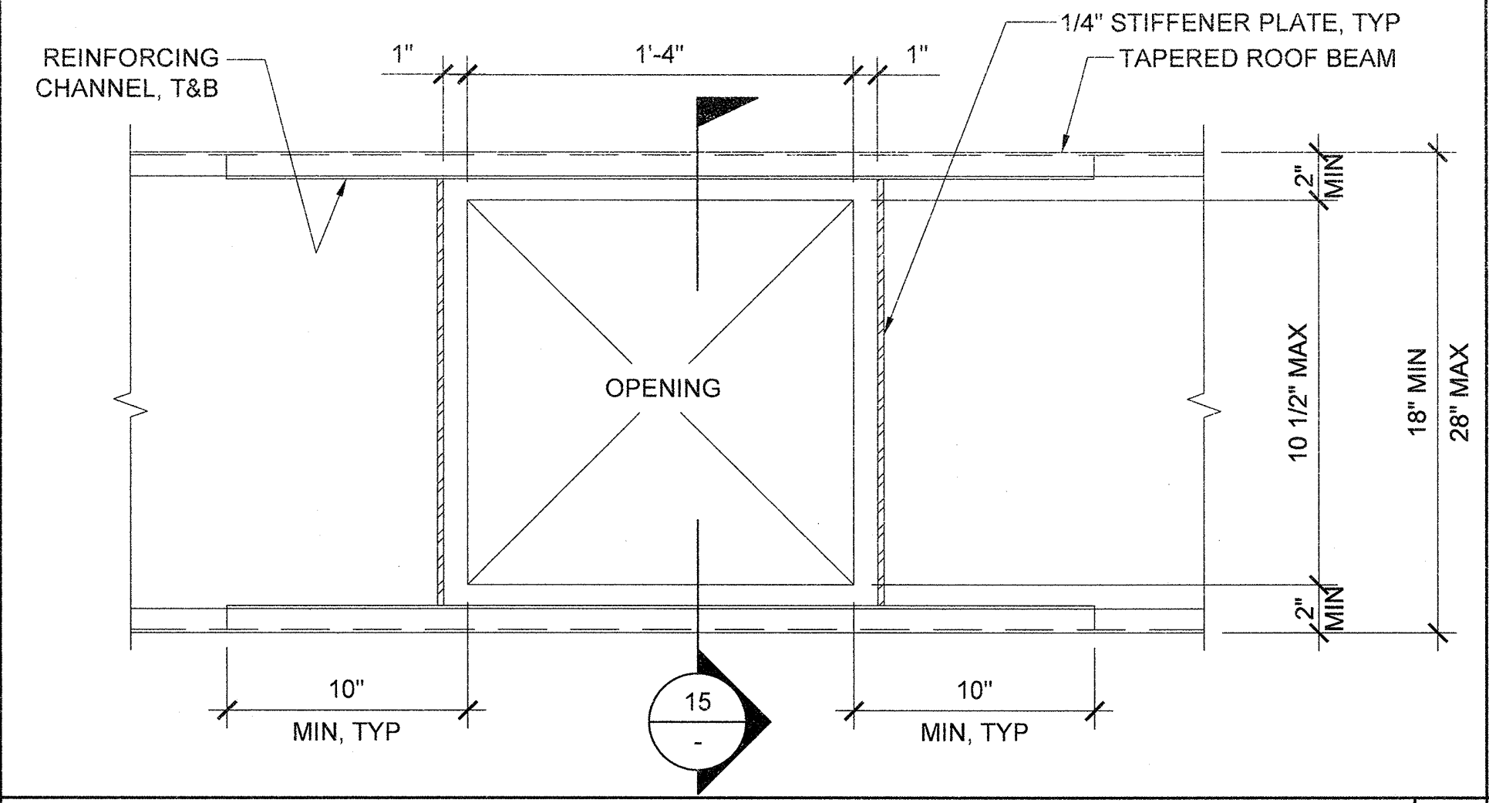
NOT USED
4


SIDE BEAM
PURLIN, STIFF PLATE & KICK BRACING
AT RIDGE LINE (SEE DETAIL 8)
1/8
3 SIDES
HSS 3x3 MIDDLE COLUMN

COLUMN @ MID-SPAN
SCALE : 3"=1'-0" 20



WEB OPENING AT ROOF HEADER
SCALE : 3" = 1'-0" 15



OPENING AT ROOF BEAM (OPTION)
SCALE : 1 1/2" = 1'-0" 10

NOT USED
5

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF FRAMING
DETAILS
DUAL SLOPE

MANNY D. FRISCH
No. S3380
RST# 15008
02/02/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC / FLS ✓ SS
Date FEB 0 3 2017

REVISIONS
1
2
3
4
5
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7
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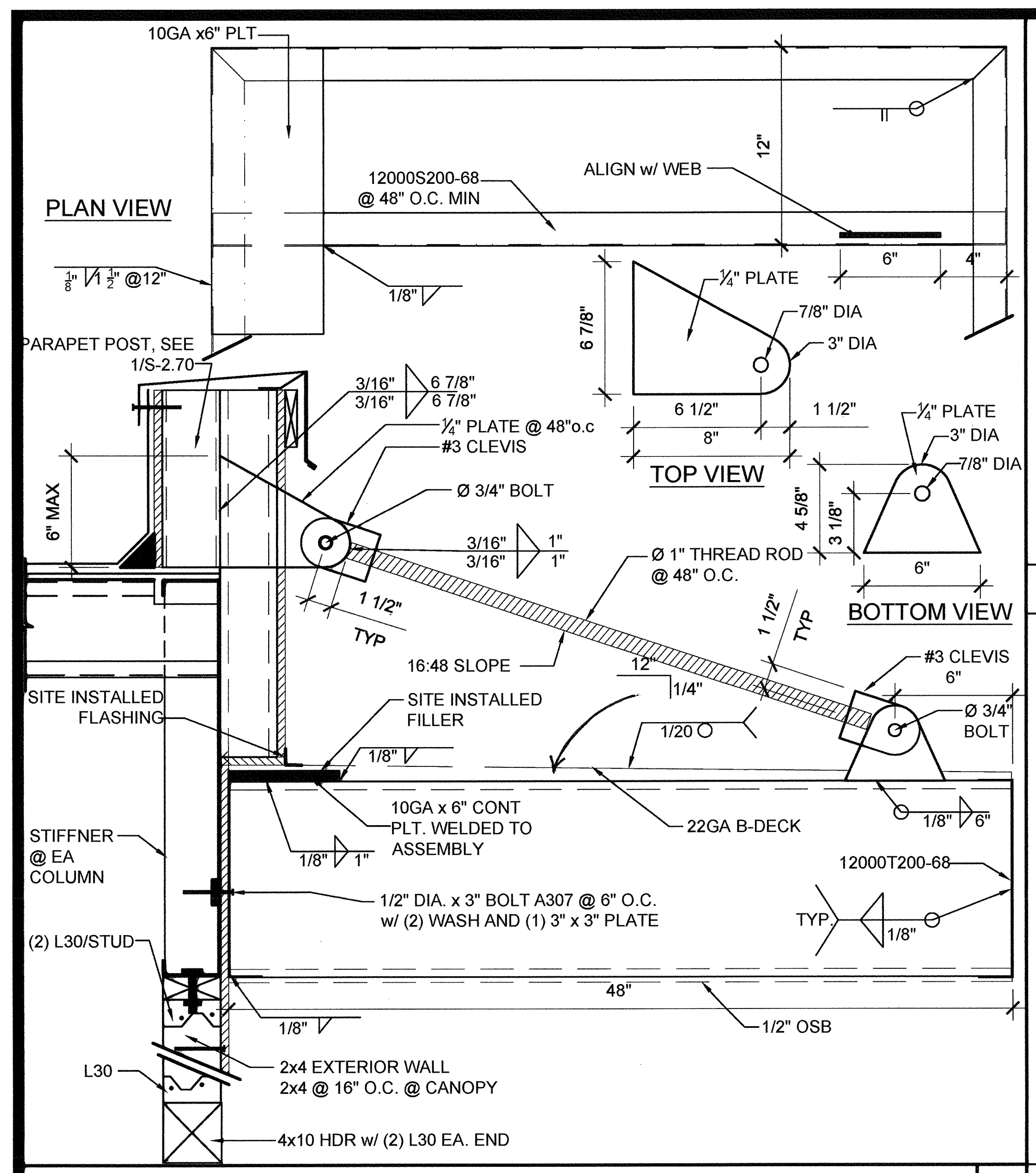
SILVER CREEK INDUSTRIES

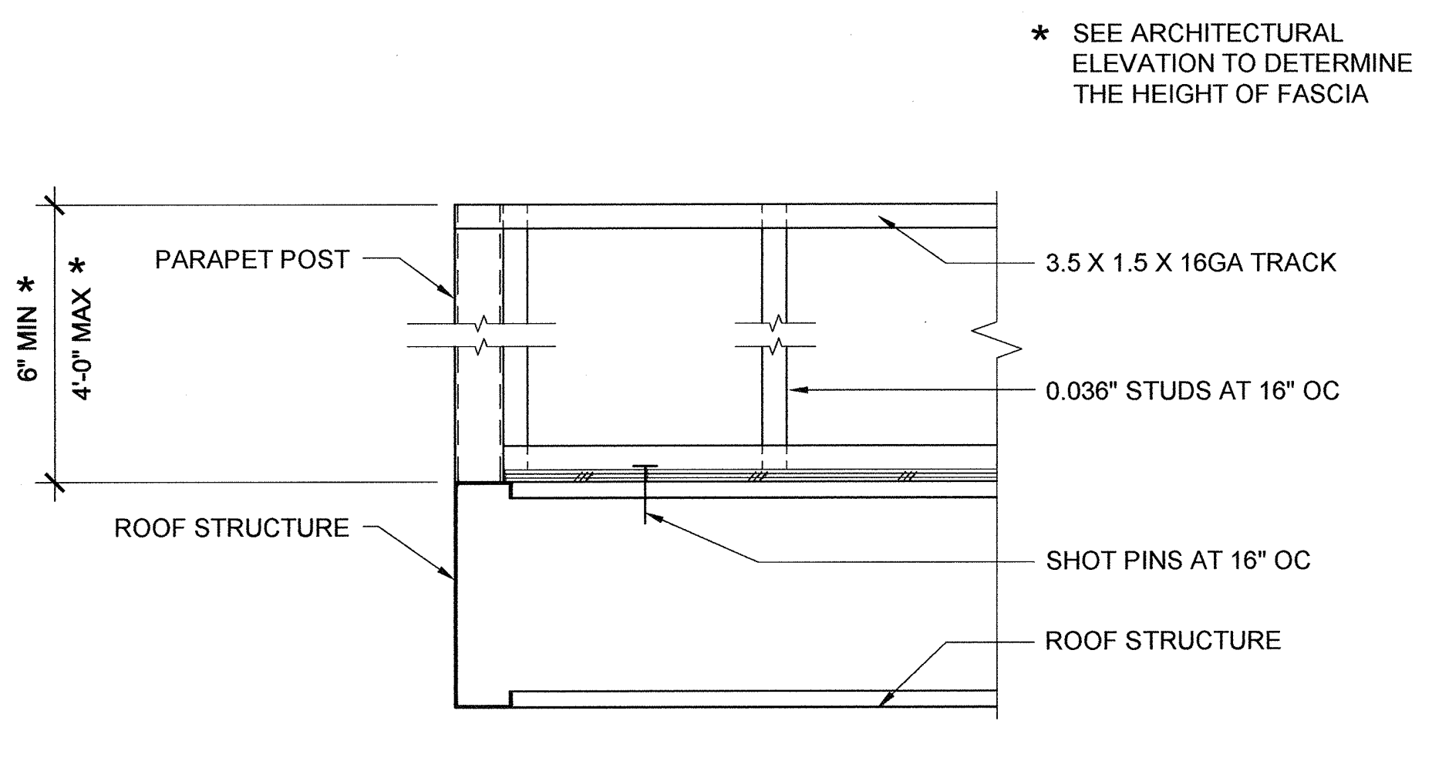
PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER
S-2.51-M1



48" CANOPY

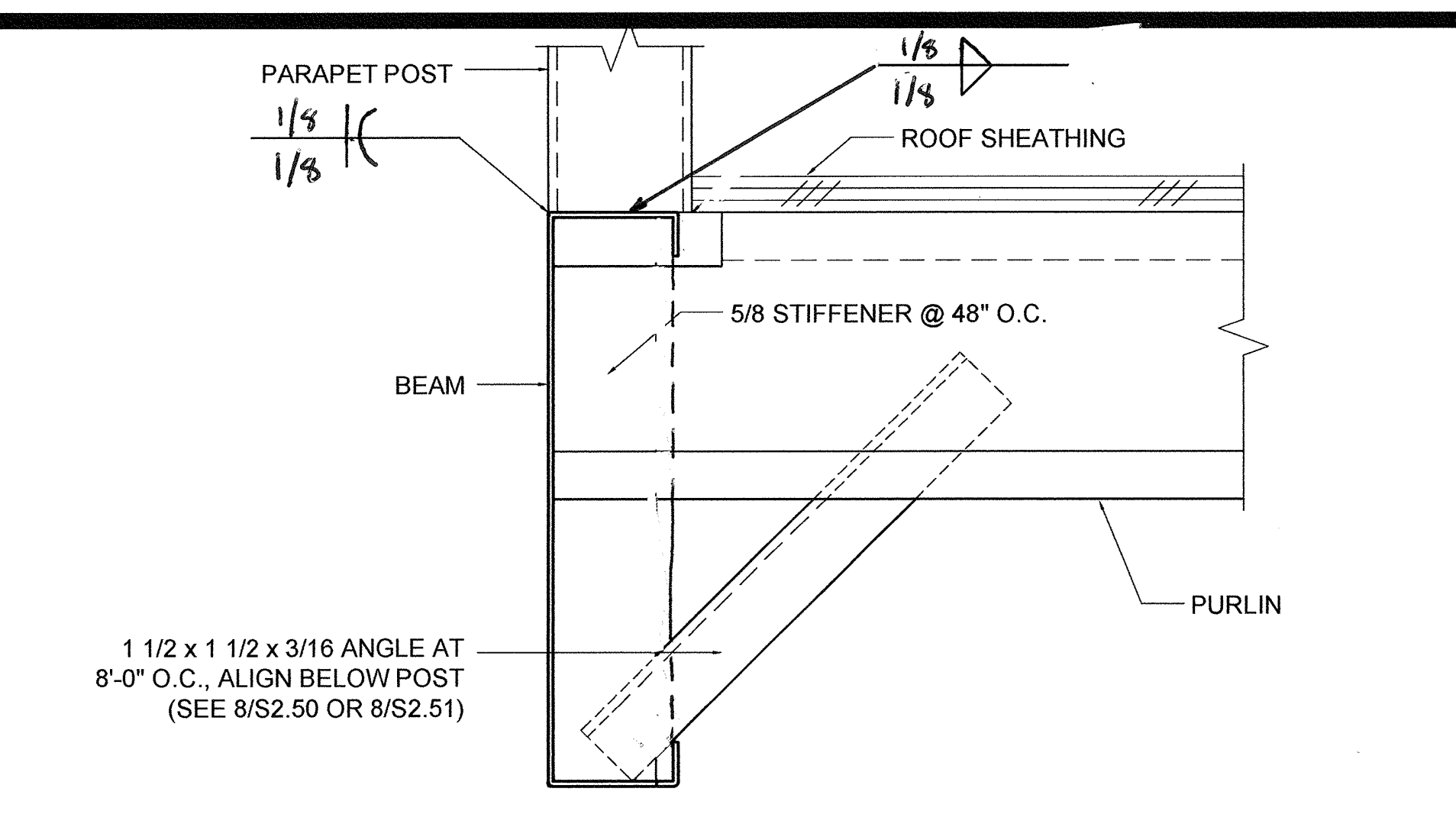
SCALE : N.T.S. 17



PARAPET STEEL METAL FRAMING AT CORNER

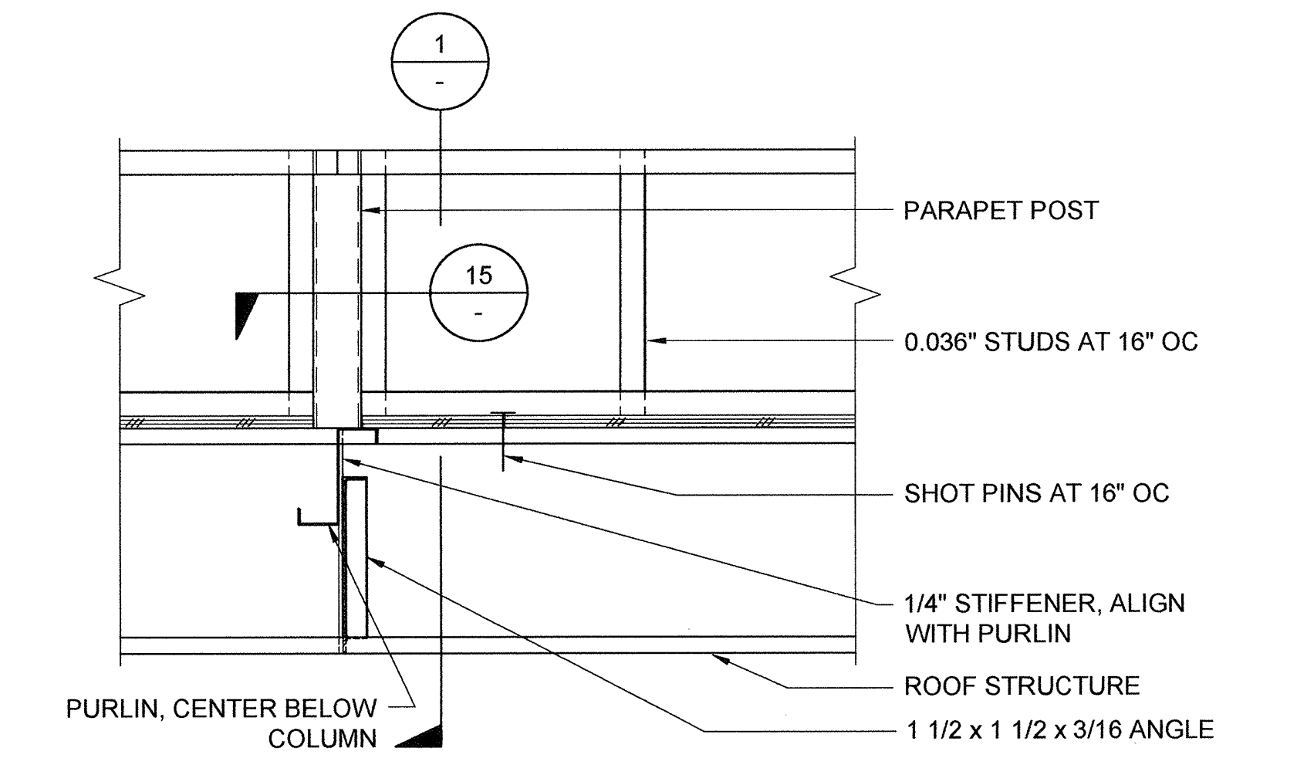
SCALE : 1" = 1'-0" 11

6



TUBE STEEL TO BEAM AT SIDEWALL

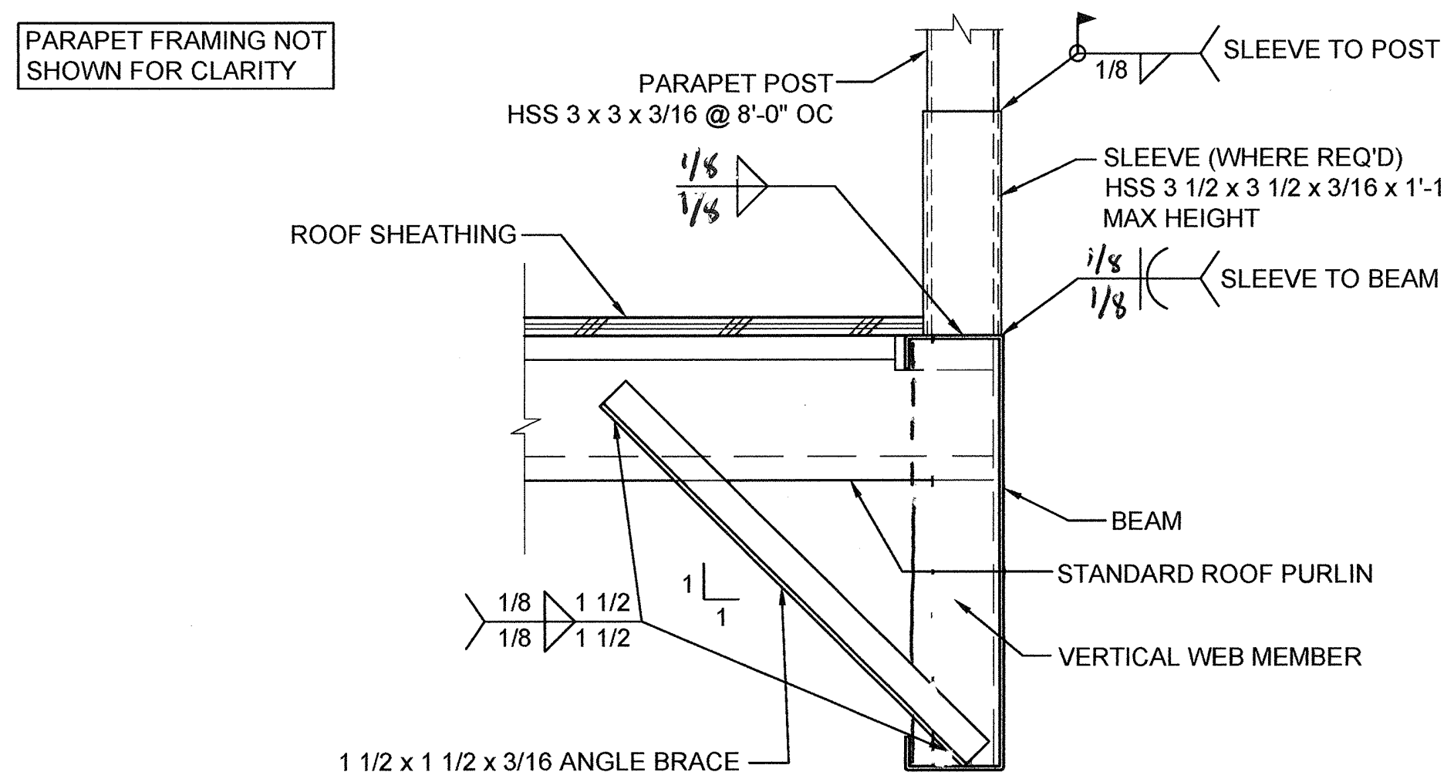
SCALE : 3"=1'-0" 1



PARAPET STEEL METAL FRAMING AT SIDEWALL

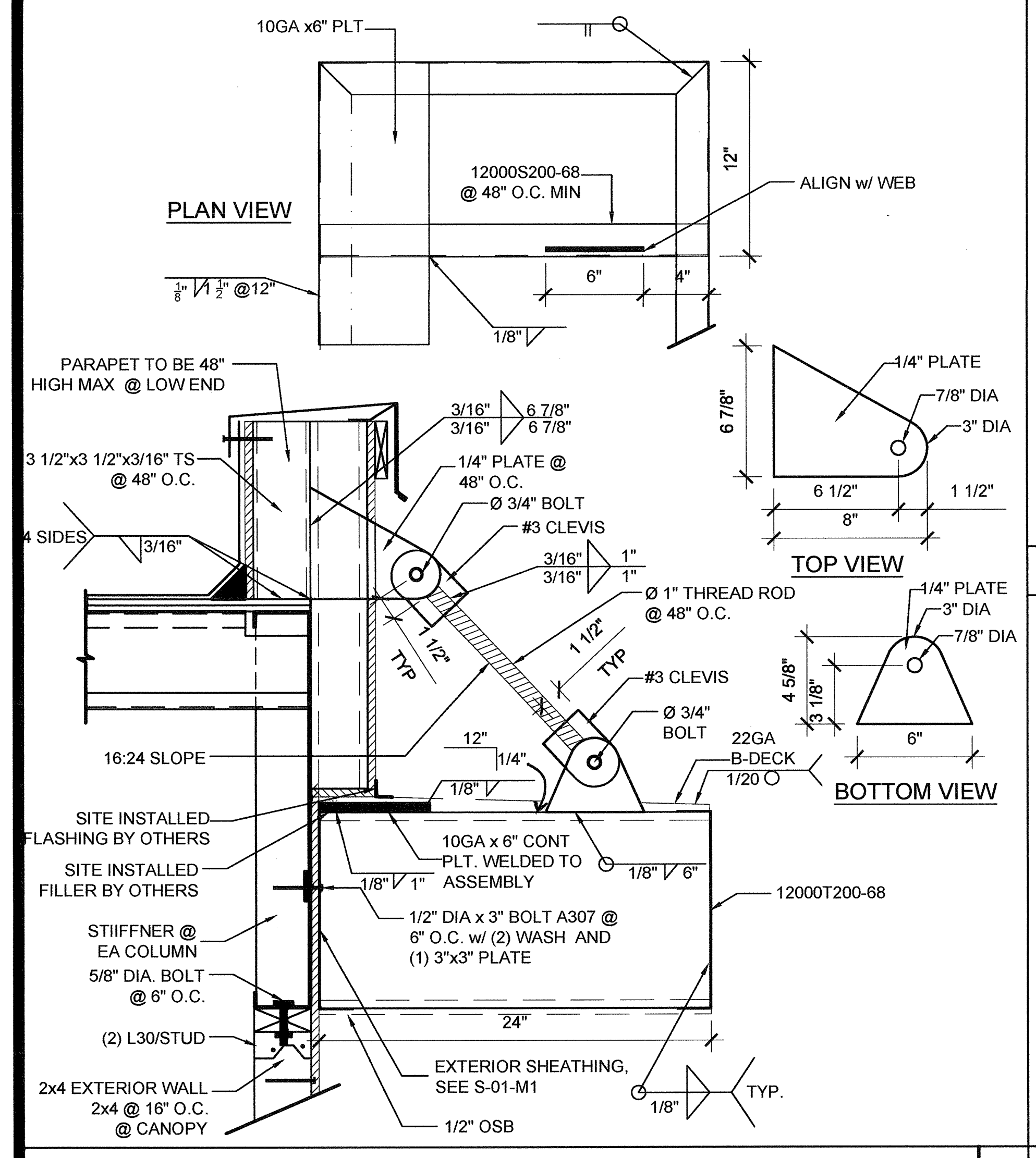
SCALE : 1"=1'-0" 12

7



PARAPET POST WITH SLEEVE OPTION

SCALE : 1 1/2"=1'-0" 2



24" CANOPY

SCALE : N.T.S. 19

13

8

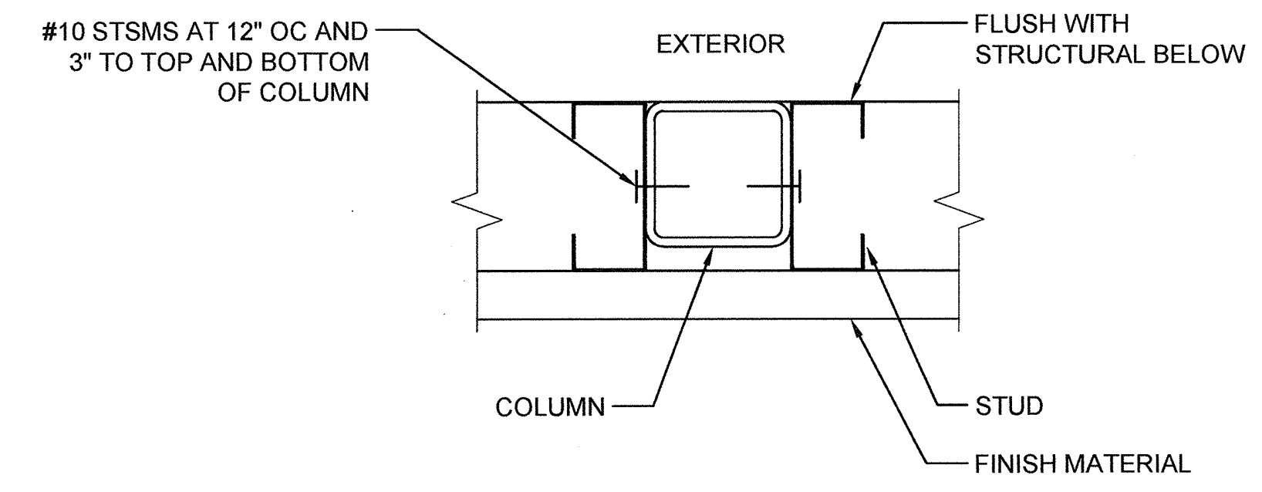
3

14

9

4

20



PARAPET SHEET METAL FRAMING TO TUBE STEEL

SCALE : 3"=1'-0" 15

10

5

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SILVER
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Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ROOF FRAMING
DETAILS
PARAPET

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD
SUBMISSION DATE

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A 03 117117
AC / FLS SS
Date FEB 0 3 2017

REVISIONS

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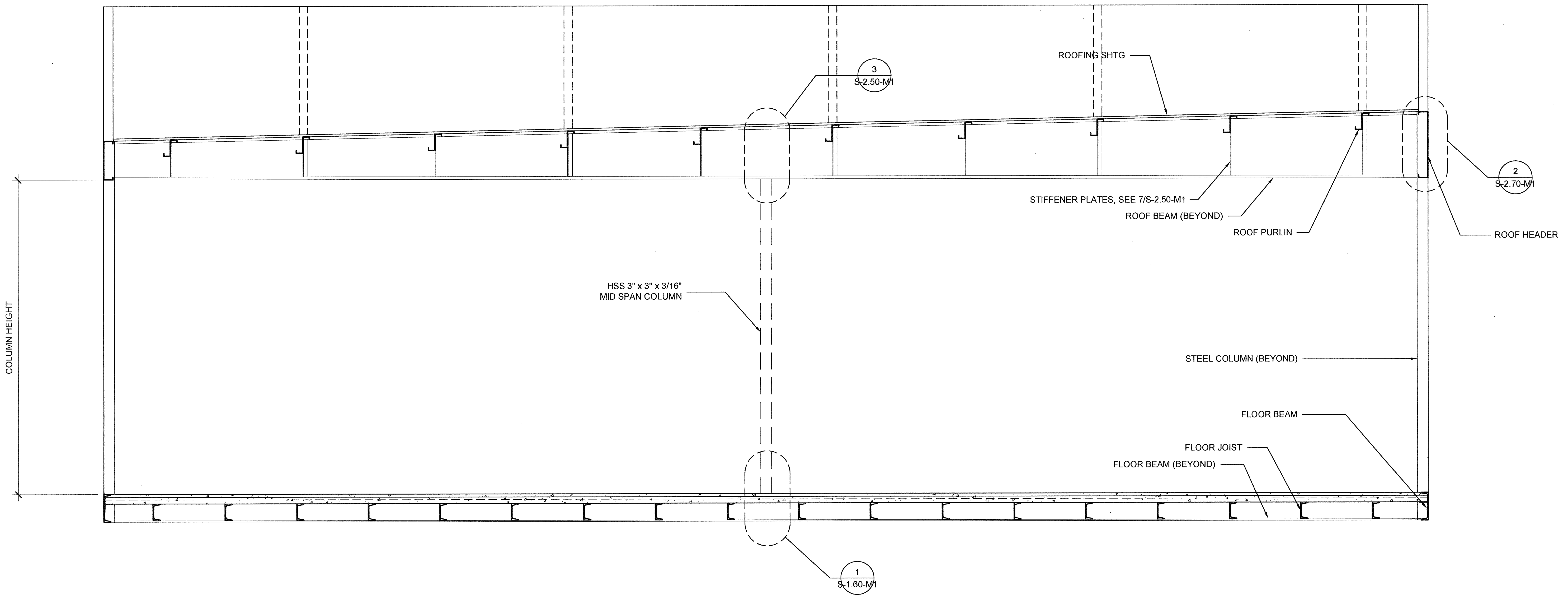
SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

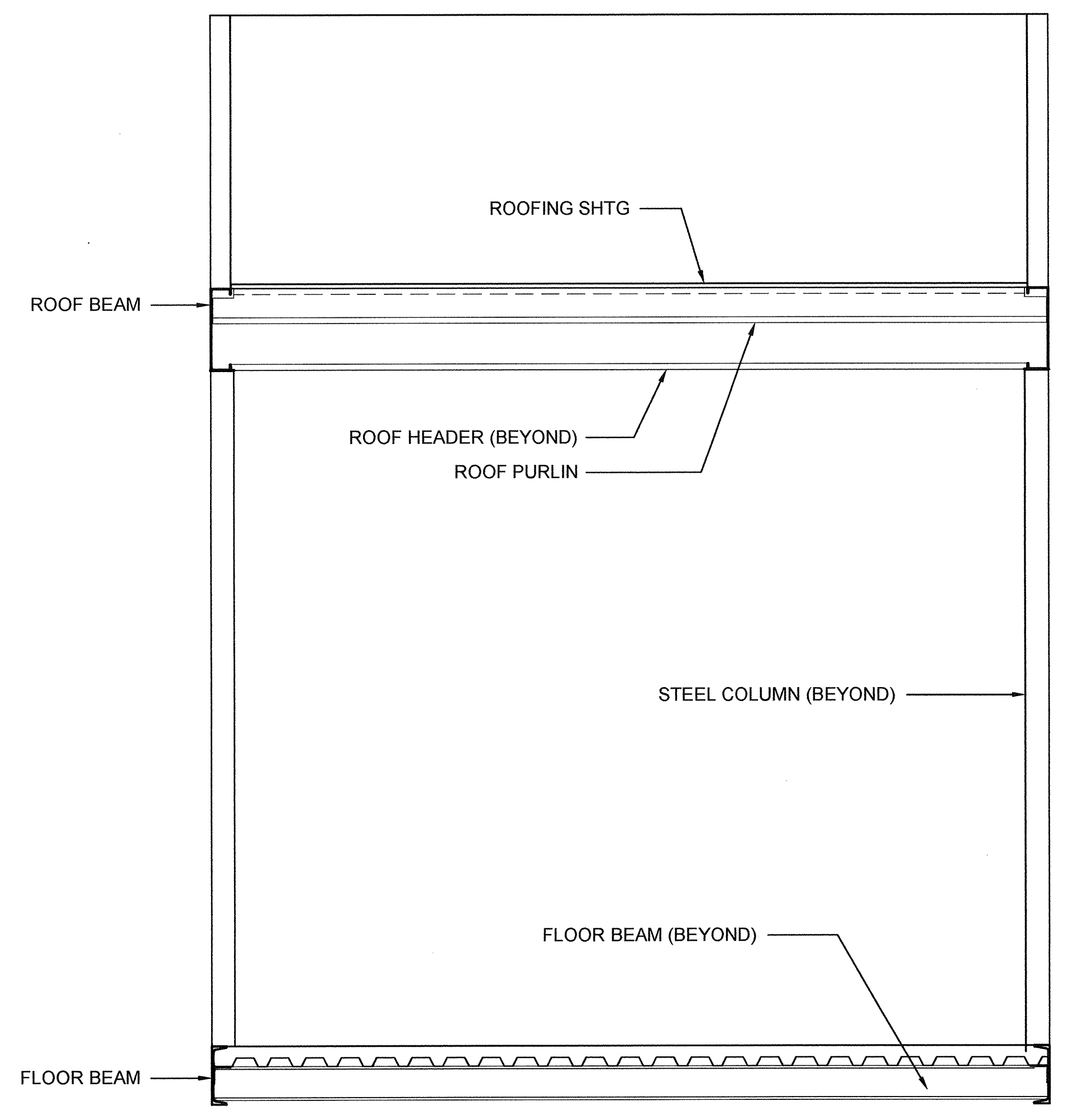
SHEET NUMBER

S-2.70-M1



BUILDING SECTION

SCALE: 1/2" = 1'-0" 1



BUILDING SECTION

SCALE: 1/2" = 1'-0" 2

NOTES

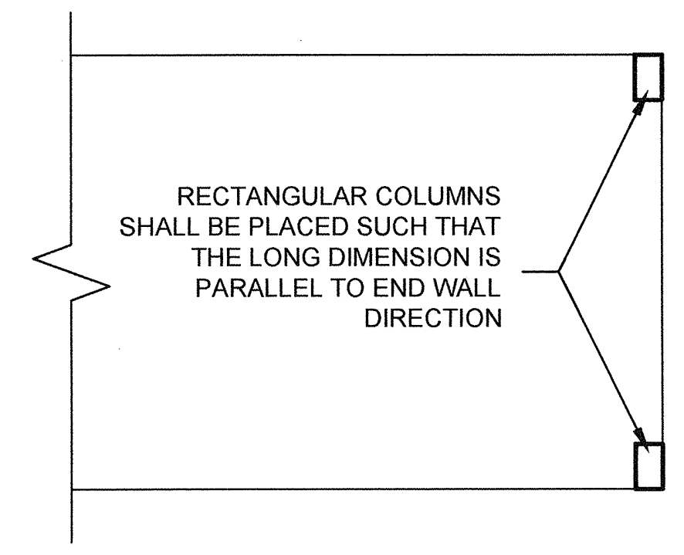
1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

CONCRETE FLOOR

HSS COLUMN SCHEDULE

COL HT	40' RESTROOM	60' RESTROOM	60' CONCESSION
9'-6"	6 x 6 x 1/4	6 x 6 x 1/4	7 x 5 x 1/4



RECTANGULAR COLUMNS SHALL BE PLACED SUCH THAT THE LONG DIMENSION IS PARALLEL TO END WALL DIRECTION

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PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

BUILDING SECTIONS
MONO SLOPE

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
RST#15008
01/23/2017

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SUBMISSION DATE

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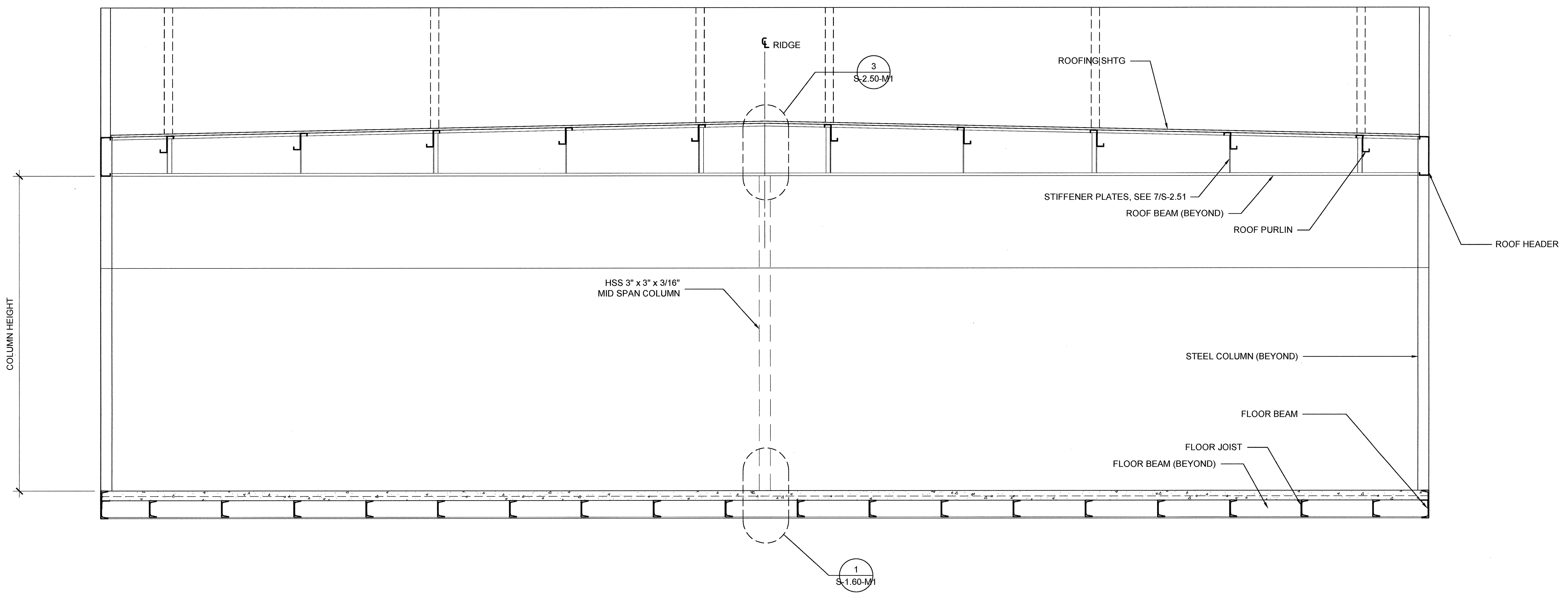
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

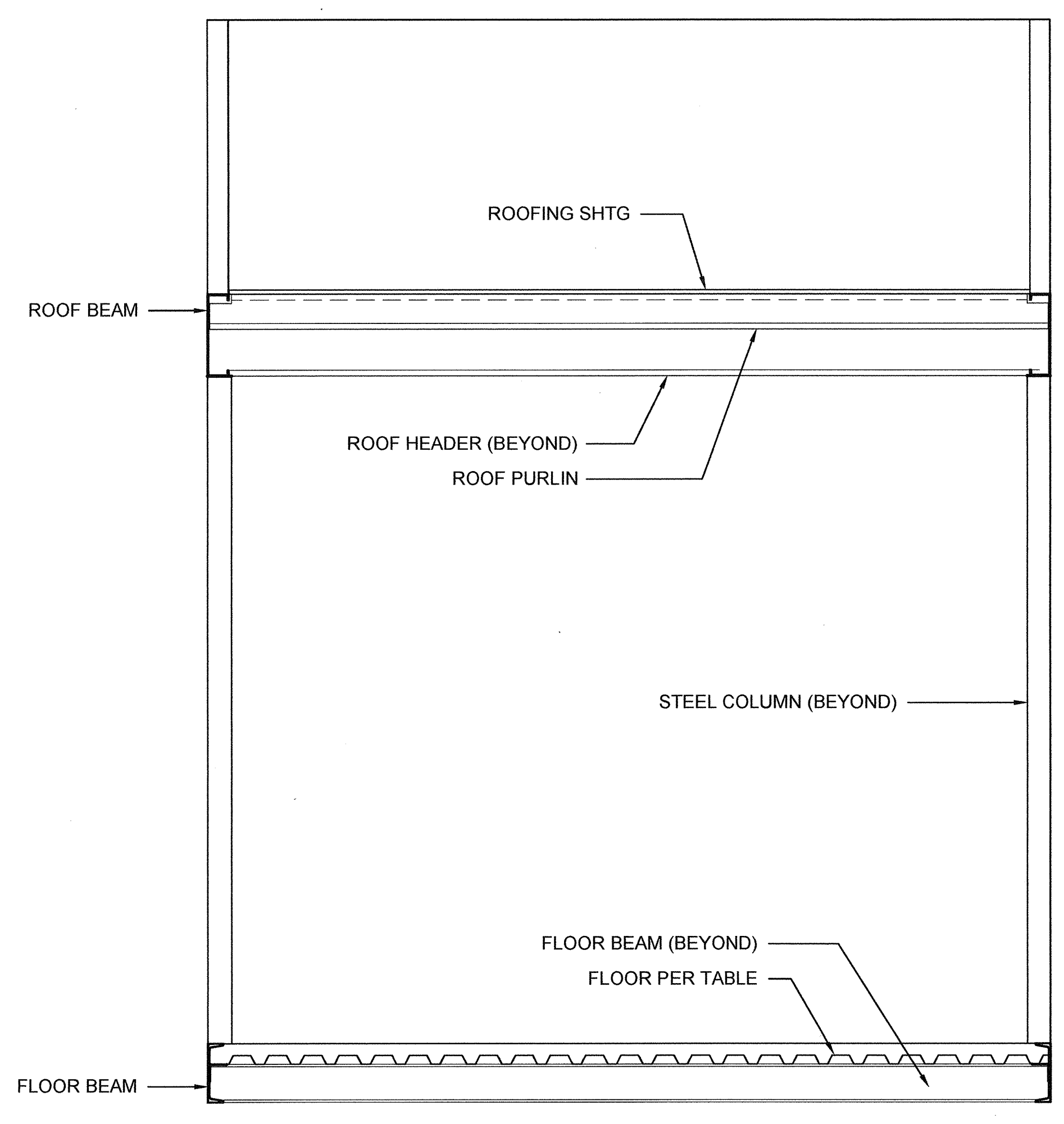
SHEET NUMBER

S-3.01-M1



BUILDING SECTION

SCALE: 1/2" = 1'-0" 1



BUILDING SECTION

SCALE: 3/8" = 1'-0" 2

NOTES

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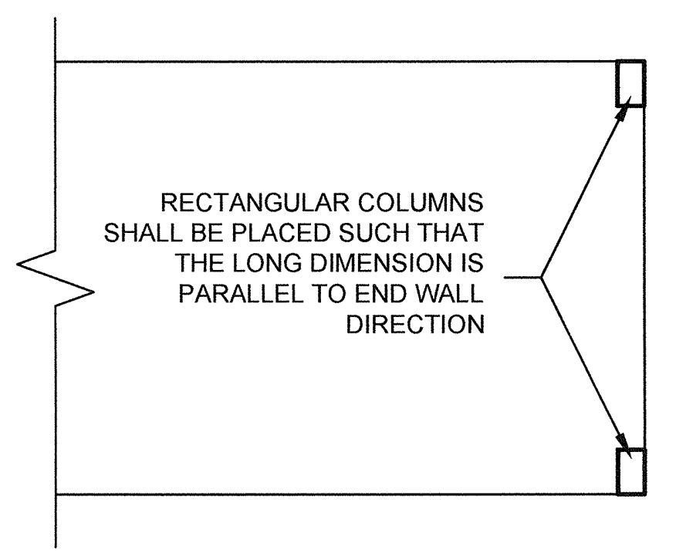
FLOOR CONSTRUCTION

CONCRETE FLOOR

HSS COLUMN SCHEDULE

COL HT	40' RESTROOM	60' RESTROOM	60' CONCESSION
9'-6"	6 x 6 x 1/4	6 x 6 x 1/4	7 x 5 x 1/4



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SILVER
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

BUILDING SECTIONS
DUAL SLOPE

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#45008
01/23/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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Date FEB 0 3 2017

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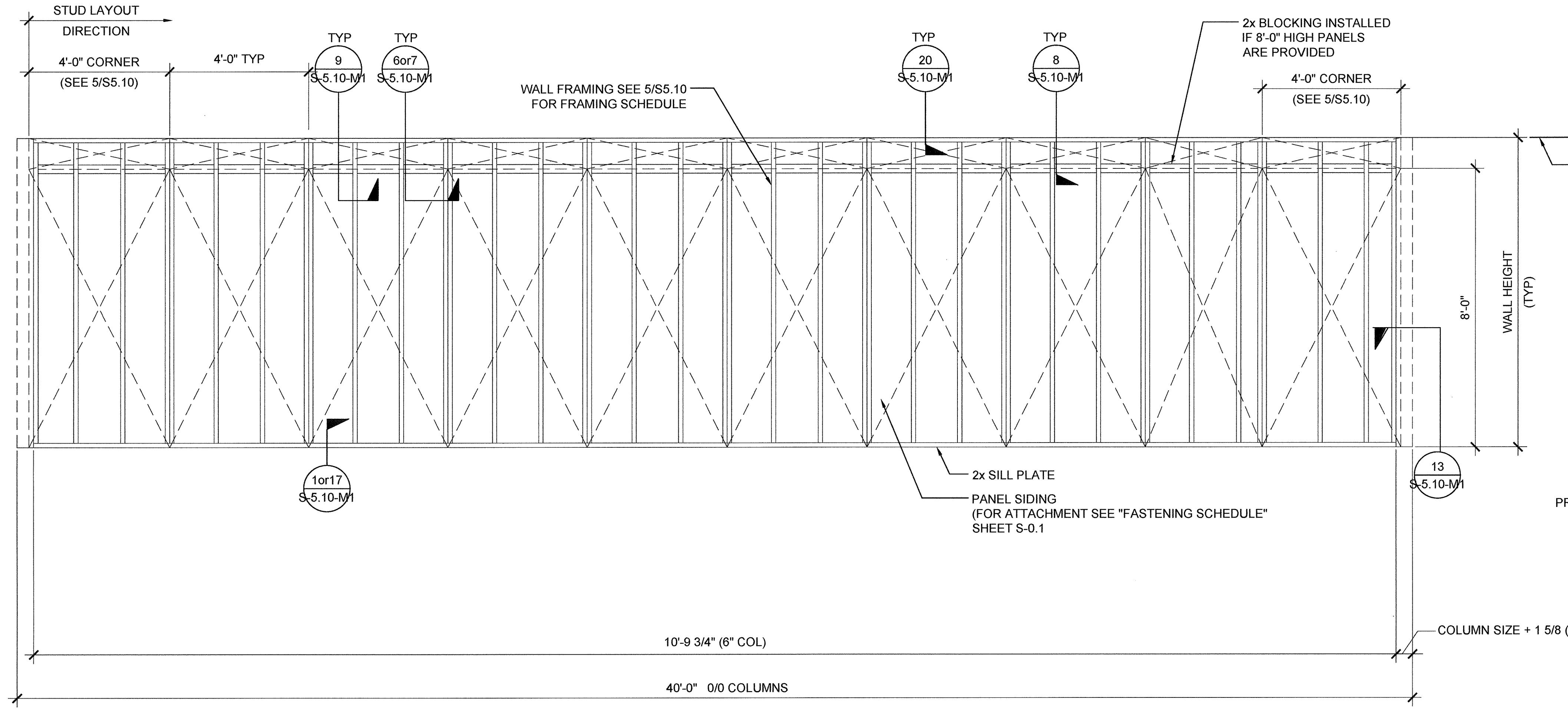
SILVER CREEK INDUSTRIES

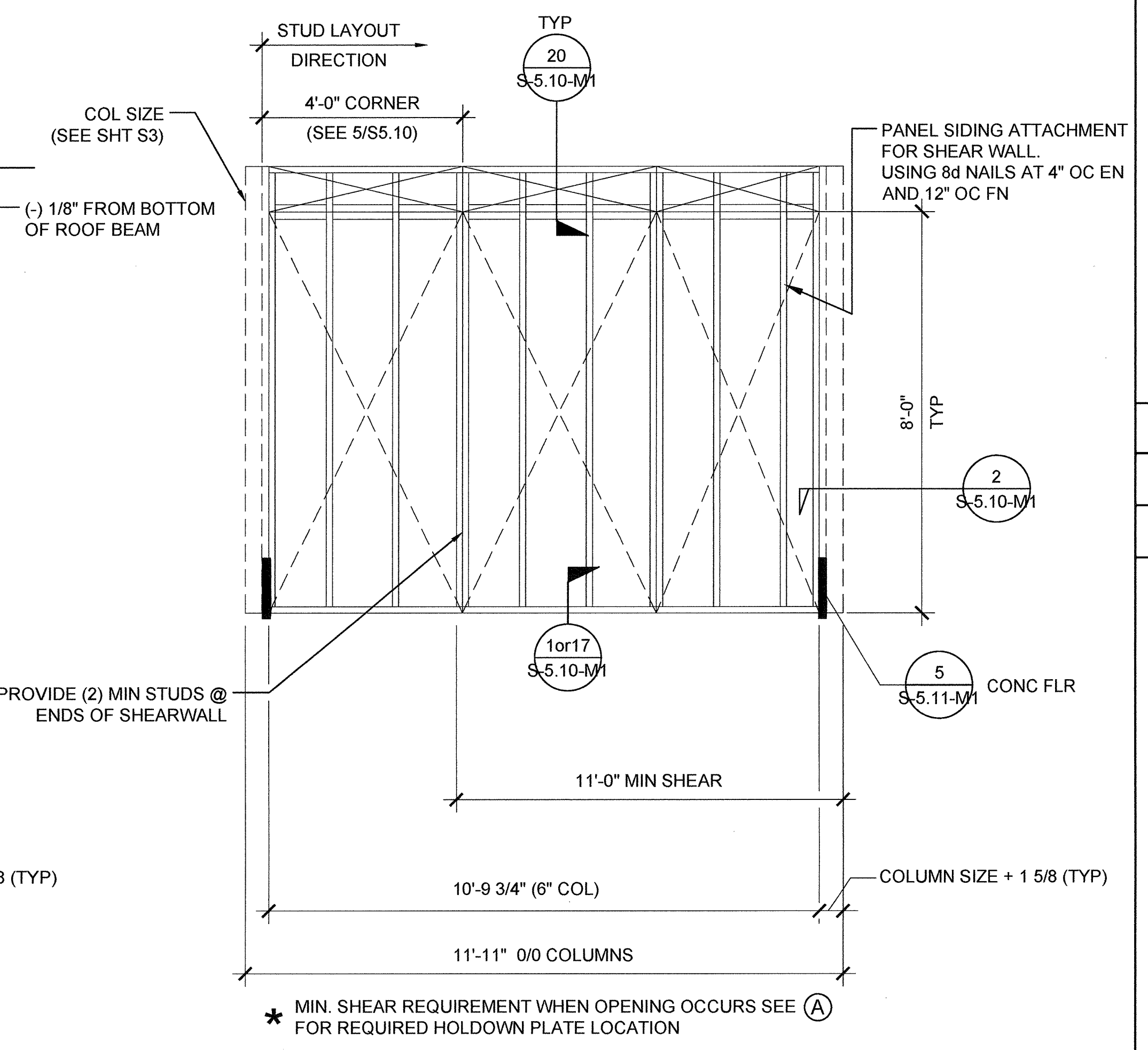
PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

S-3.02-M1



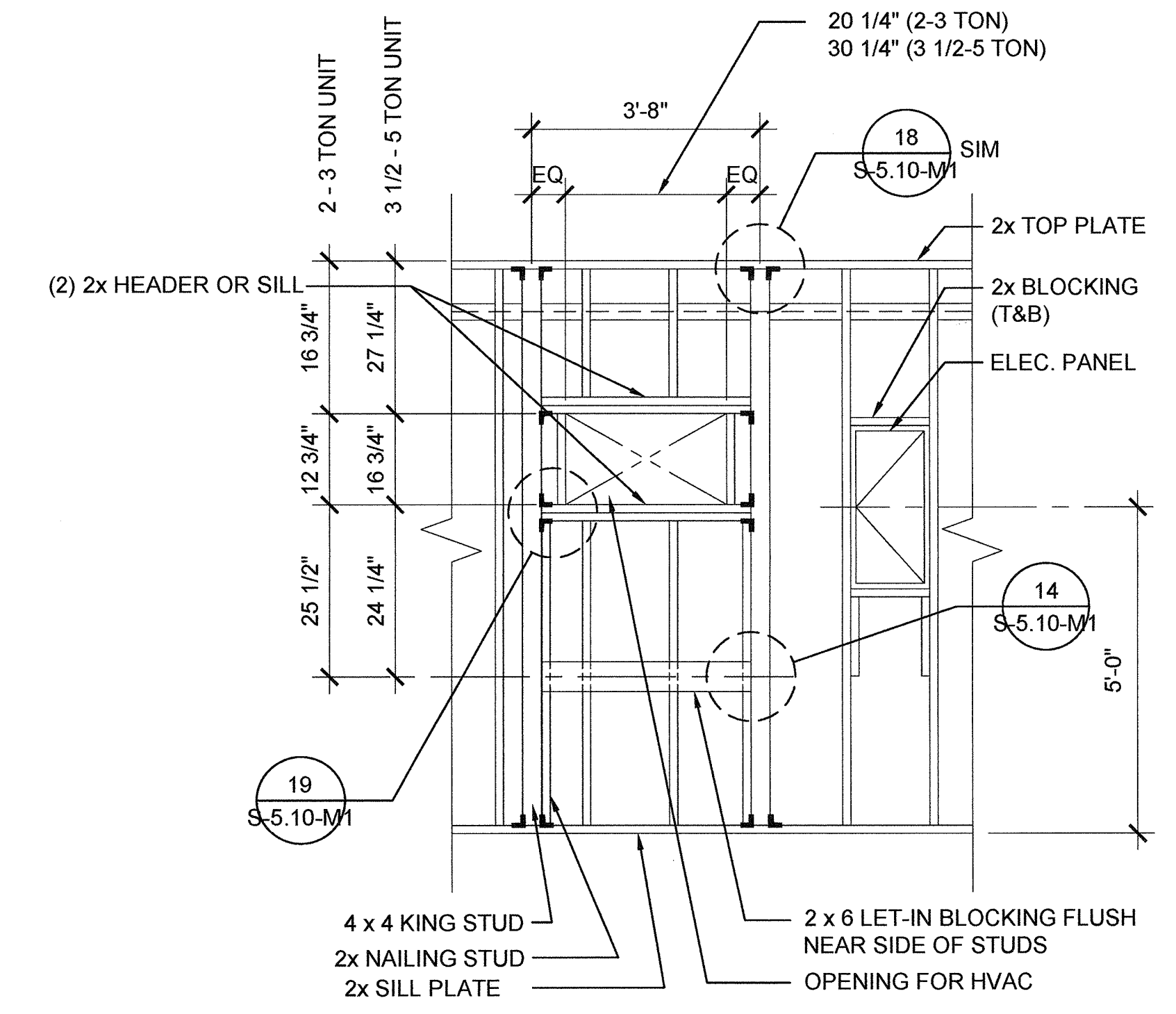
TYPICAL SIDE WALL



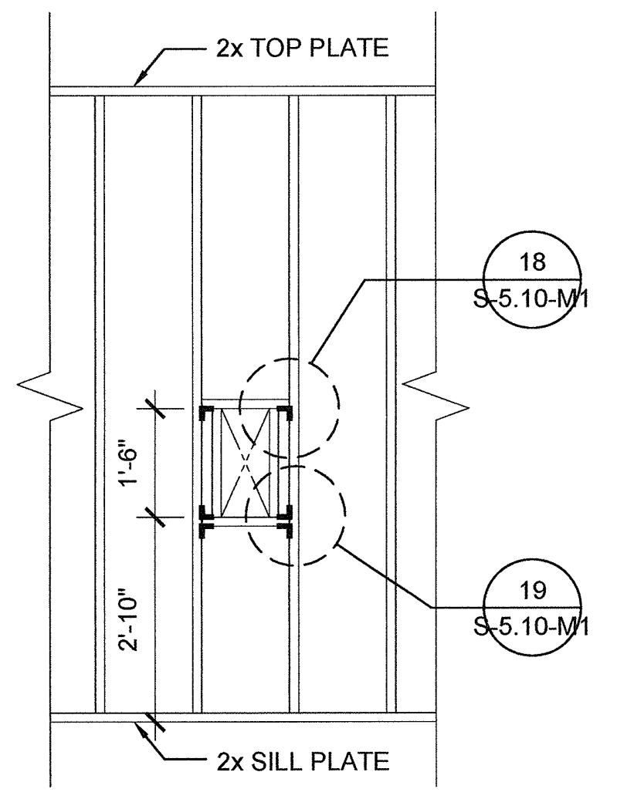
* MIN. SHEAR REQUIREMENT WHEN OPENING OCCURS SEE Ⓐ
FOR REQUIRED HOLDOWN PLATE LOCATION

TYPICAL END WALL

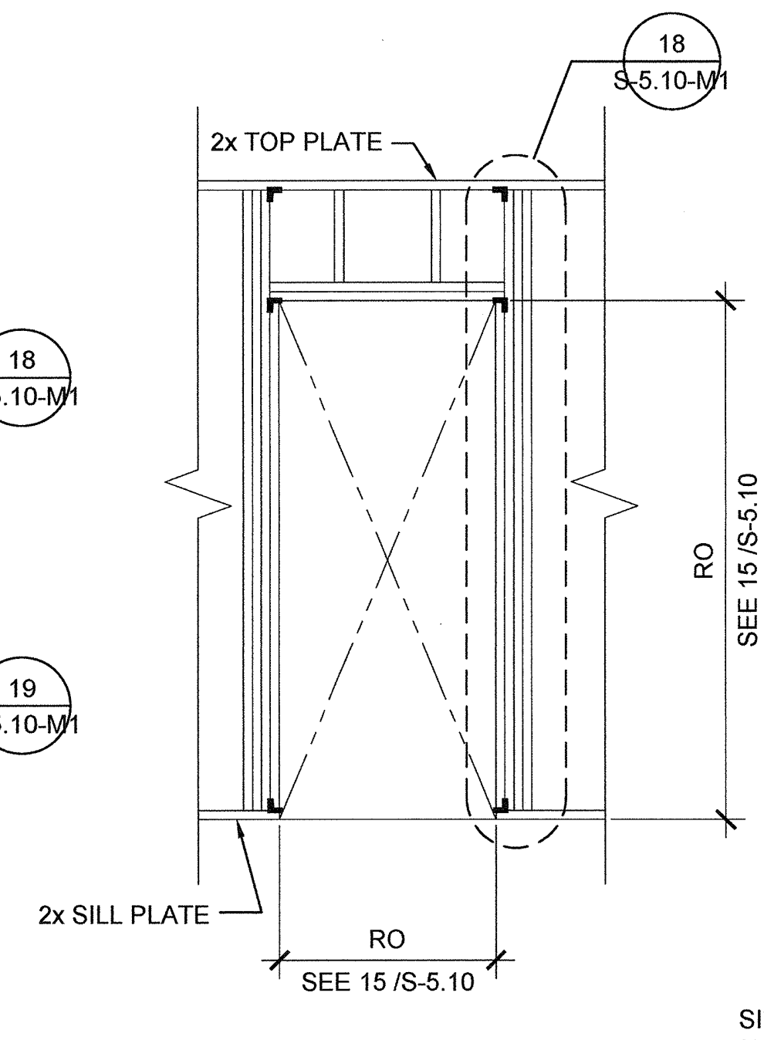
SIDEWALL IS OMF (TYP)
60' BUILDINGS THAT ARE RUNNING
E-W ARE OMF ALL 4 SIDES.
60' BUILDING RUNNING N-S IS
ENDWALL S-W SIDEWALL OMF



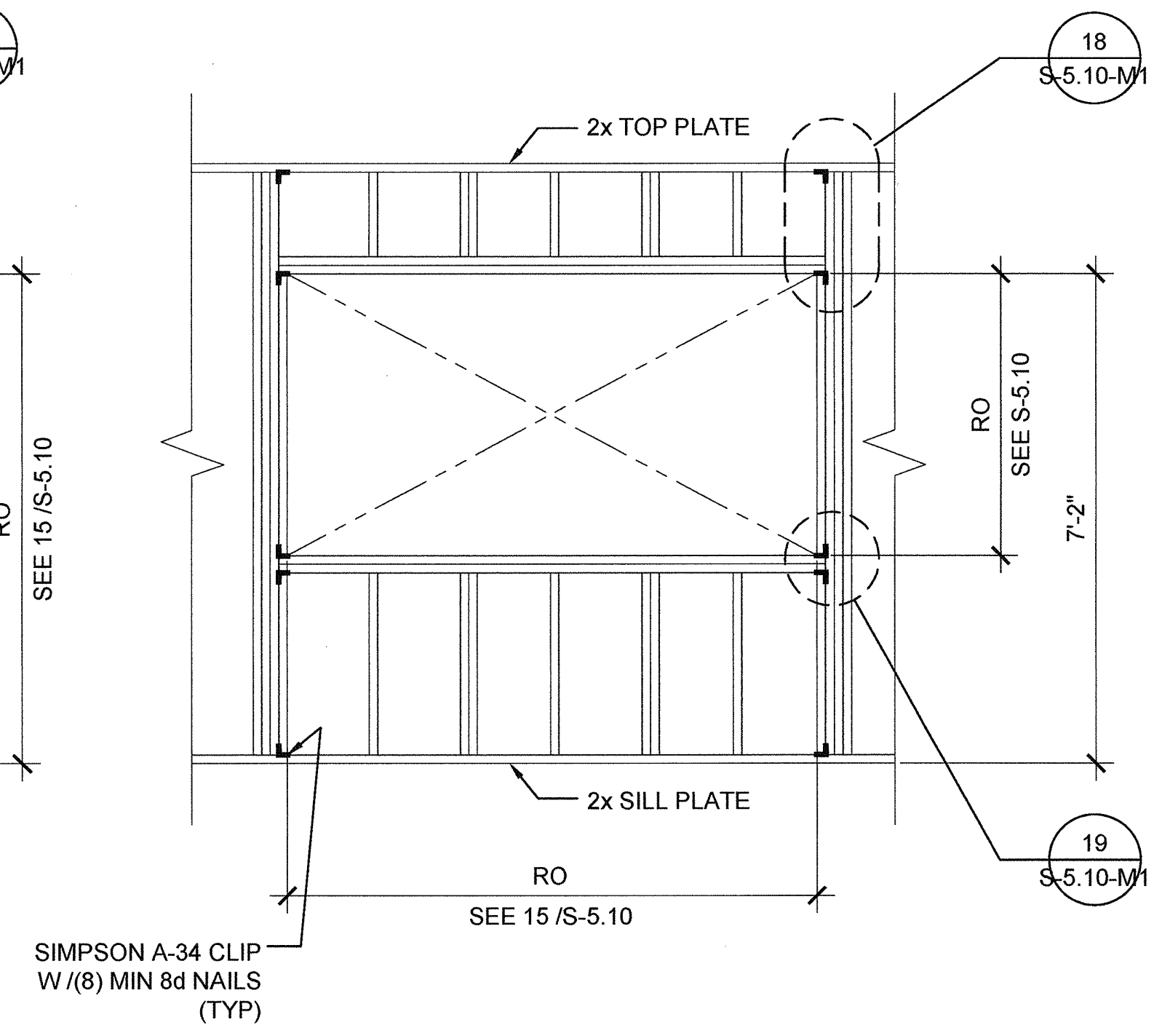
TYPICAL HVAC



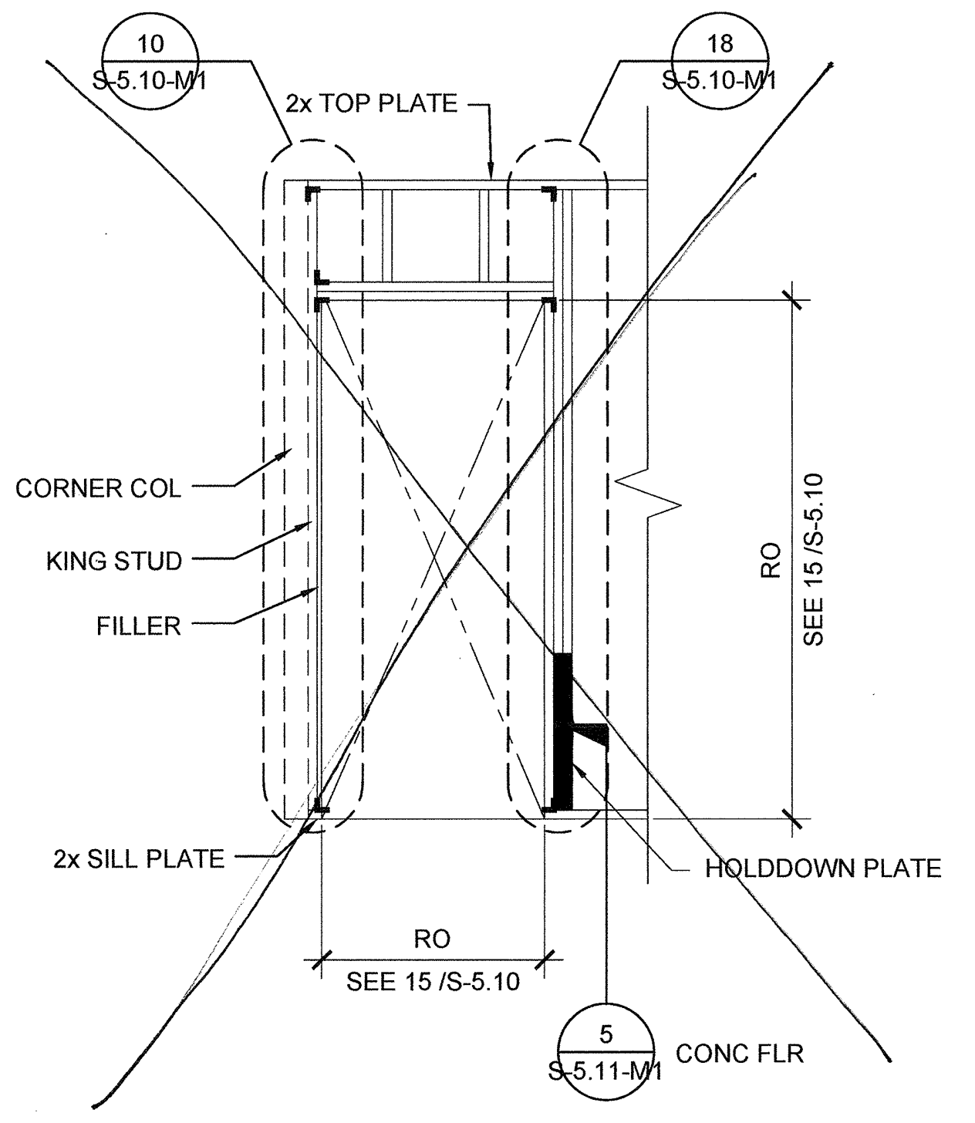
FIRE EXTINGUISHER CABINET BLOCKOUT



TYPICAL DOOR AT SIDEWALL



TYPICAL WINDOW



Ⓐ TYPICAL DOOR OPENING @ END WALL

FRAMING ELEVATIONS SCALE: 3/8" = 1'-0" 1

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	9'-6"
CONCRETE FLOOR	9'-5 7/8"

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SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

FRAMING ELEVATIONS
WOOD STUDS

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
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REVISIONS

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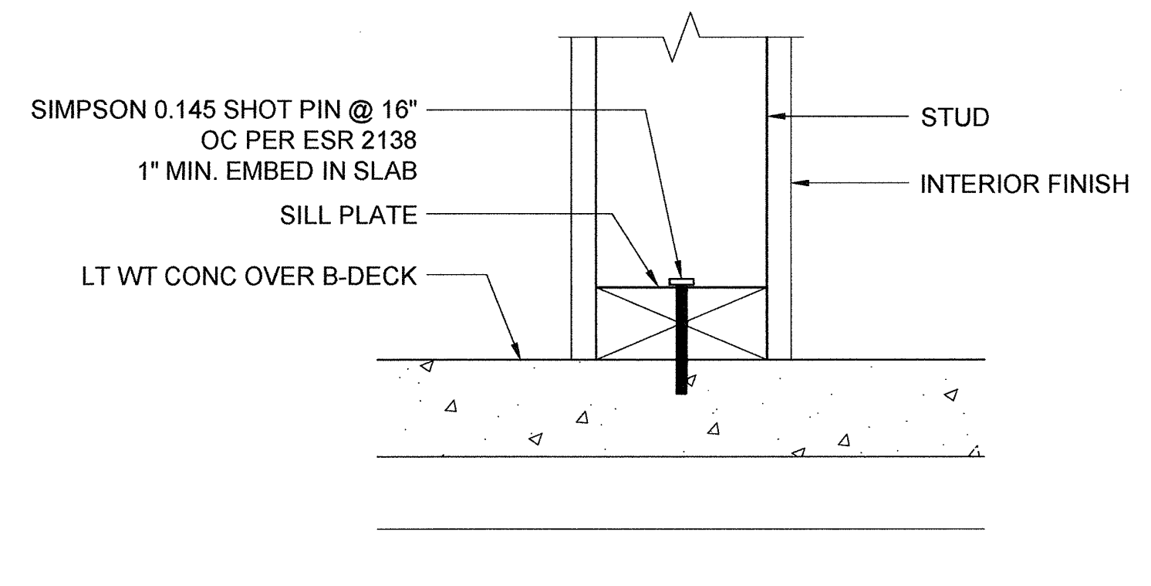
SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

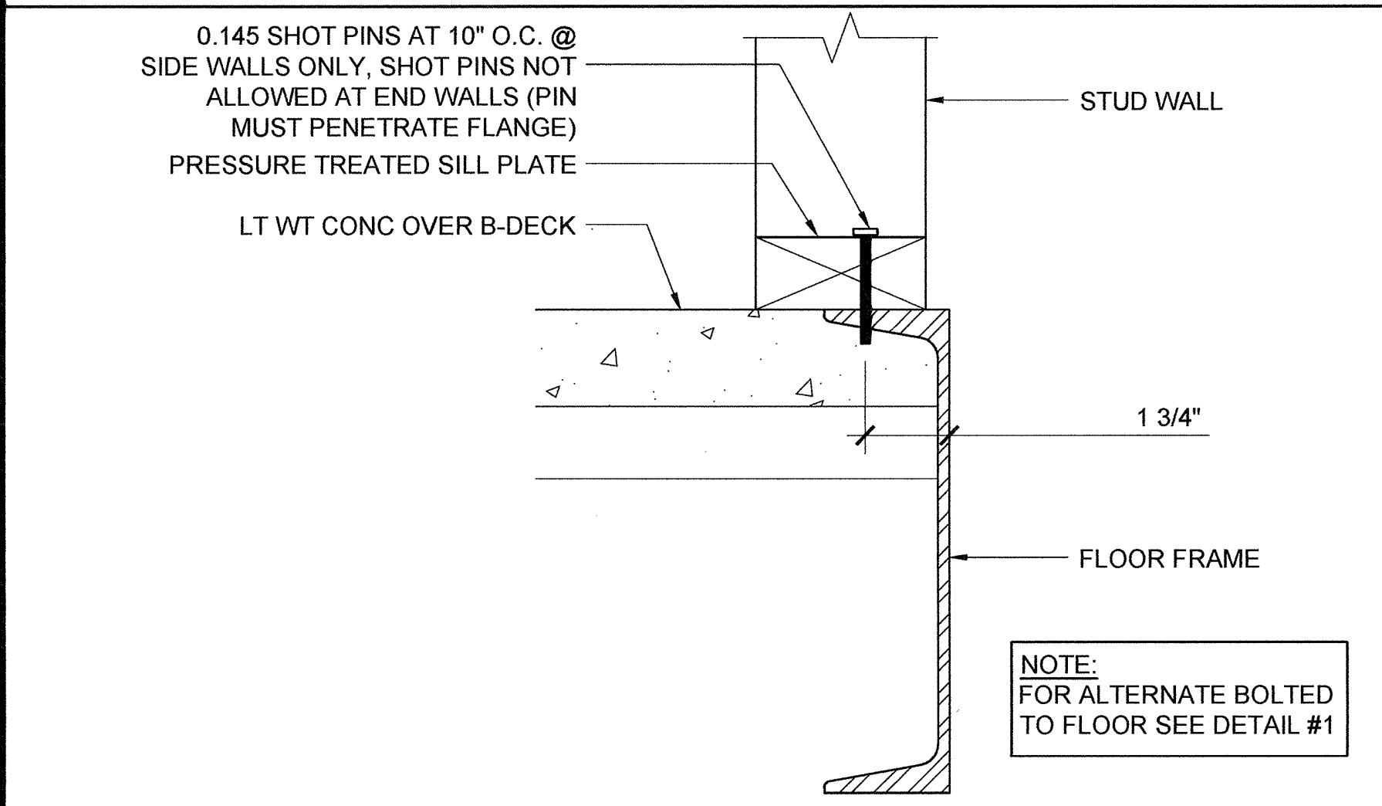
SHEET NUMBER

S-5.00-M1



PARTITION CONNECTION AT CONC FLOOR

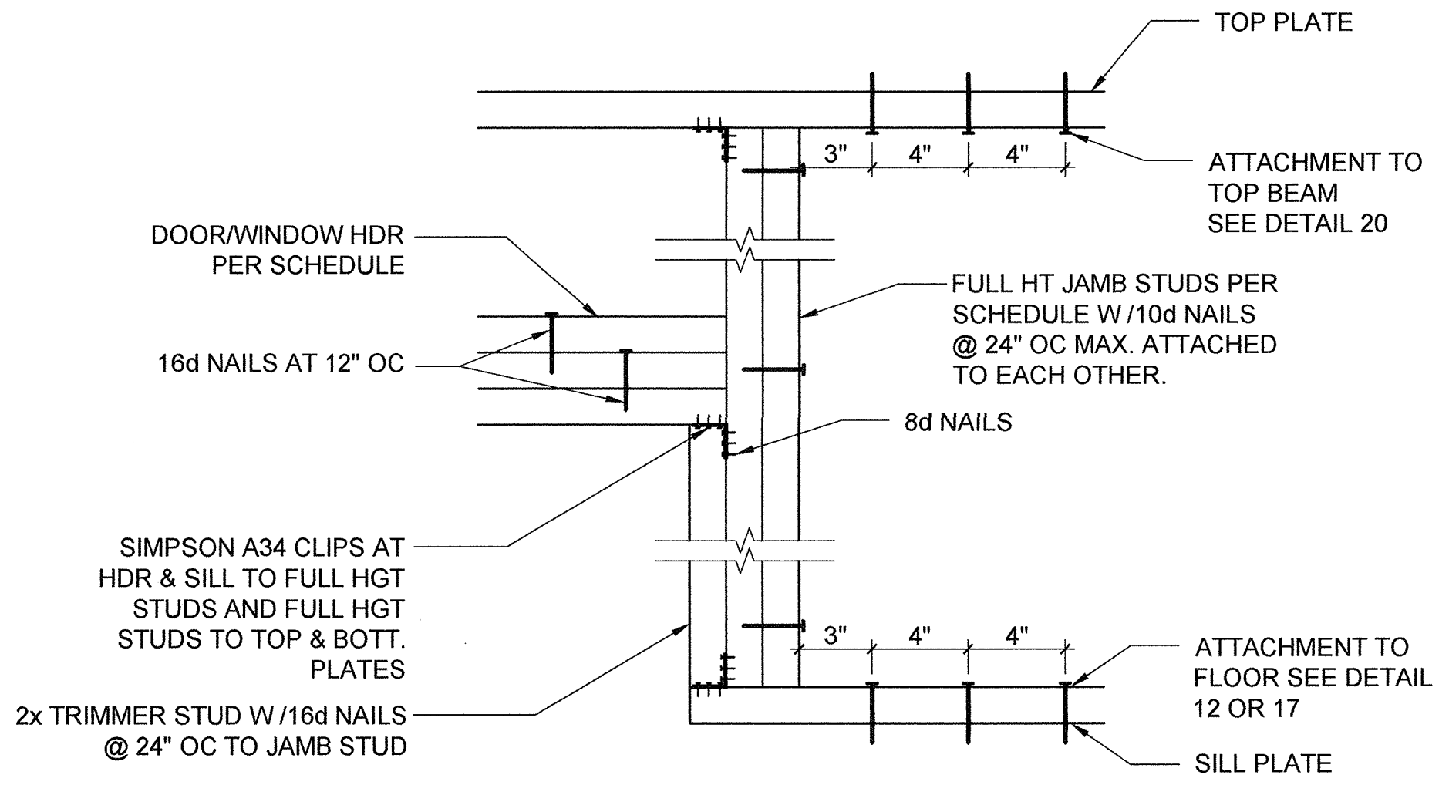
SCALE : 3"=1'-0" 16


0.145 SHOT PINS AT 10" O.C. @
SIDE WALLS ONLY, SHOT PINS NOT
ALLOWED AT END WALLS (PIN
MUST PENETRATE FLANGE)
PRESSURE TREATED SILL PLATE
LT WT CONC OVER B-DECK
STUD WALL
1 3/4"
FLOOR FRAME

NOTE:
FOR ALTERNATE BOLTED
TO FLOOR SEE DETAIL #1

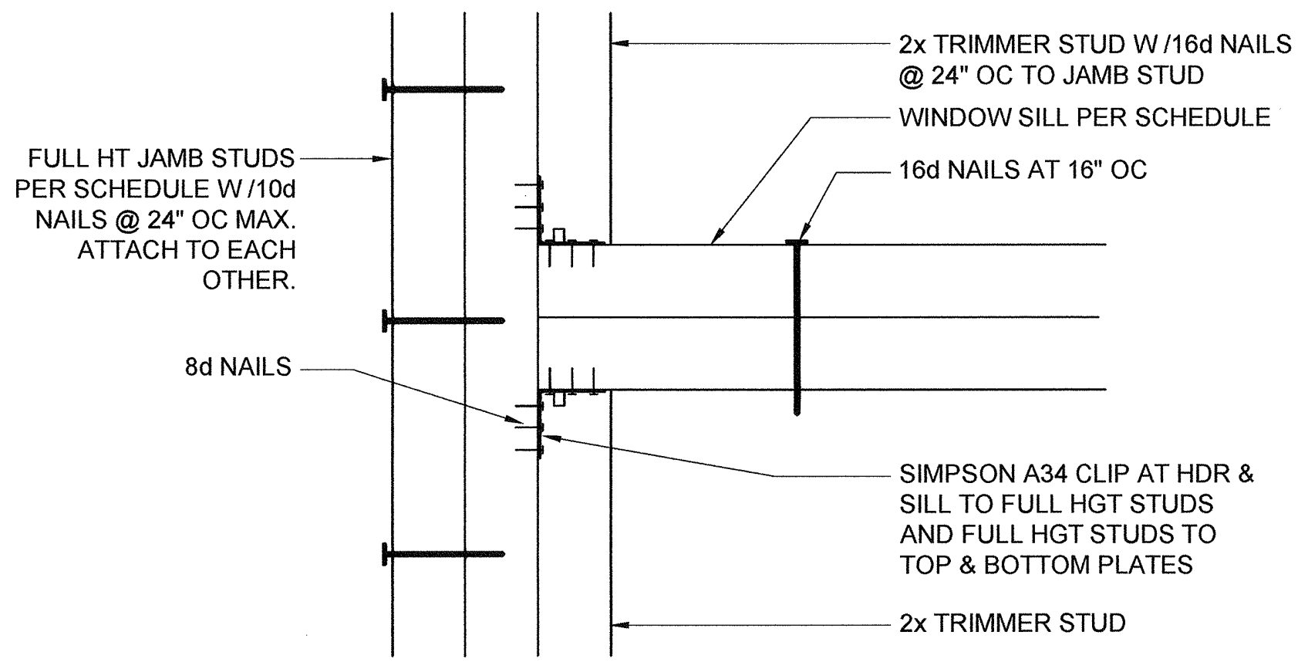
WALL SILL AT CONCRETE FLOOR

SCALE : 3"=1'-0" 17



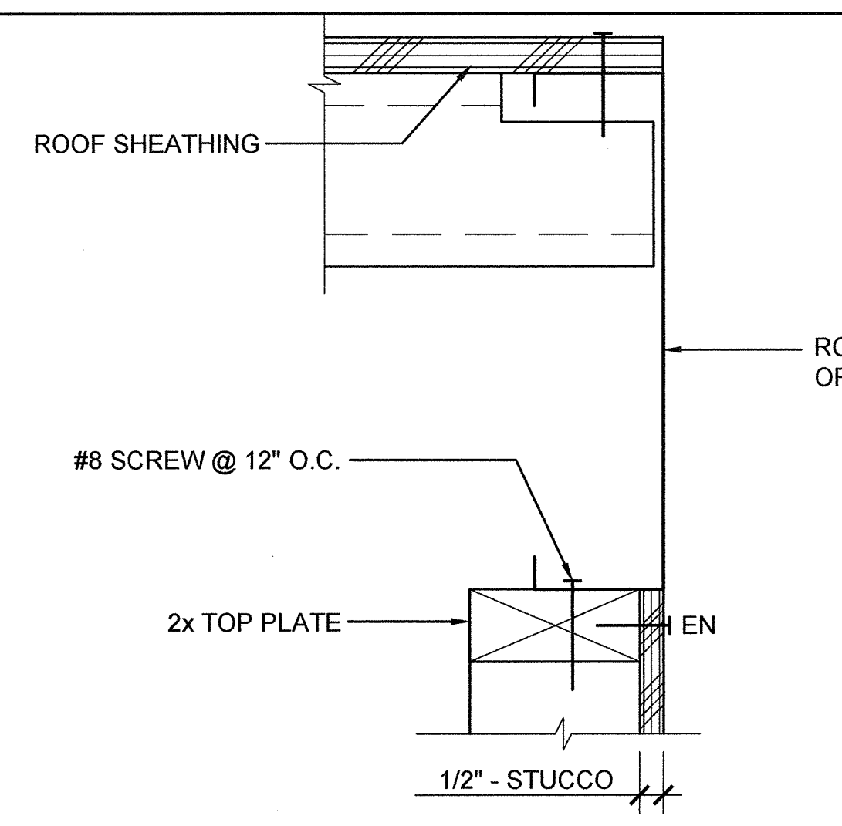
DOOR/WINDOW HEADER AND JAMB

SCALE : 1 1/2"=1'-0" 18



WINDOW SILL AND JAMB

SCALE : 3"=1'-0" 19



TOP PLATE AT ROOF BEAM

SCALE : 3" = 1'-0" 20

NOT USED

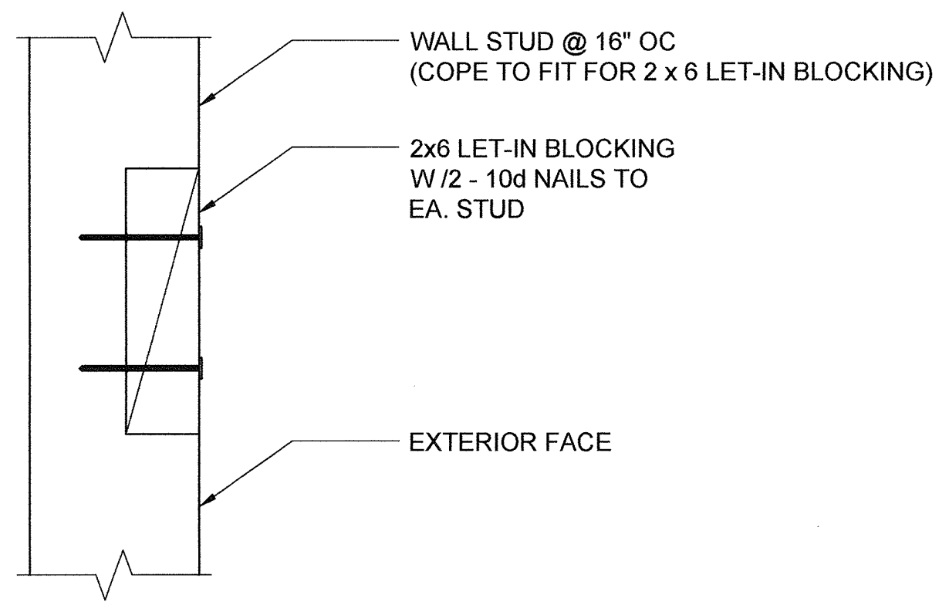
11

NOT USED

12

NOT USED

13



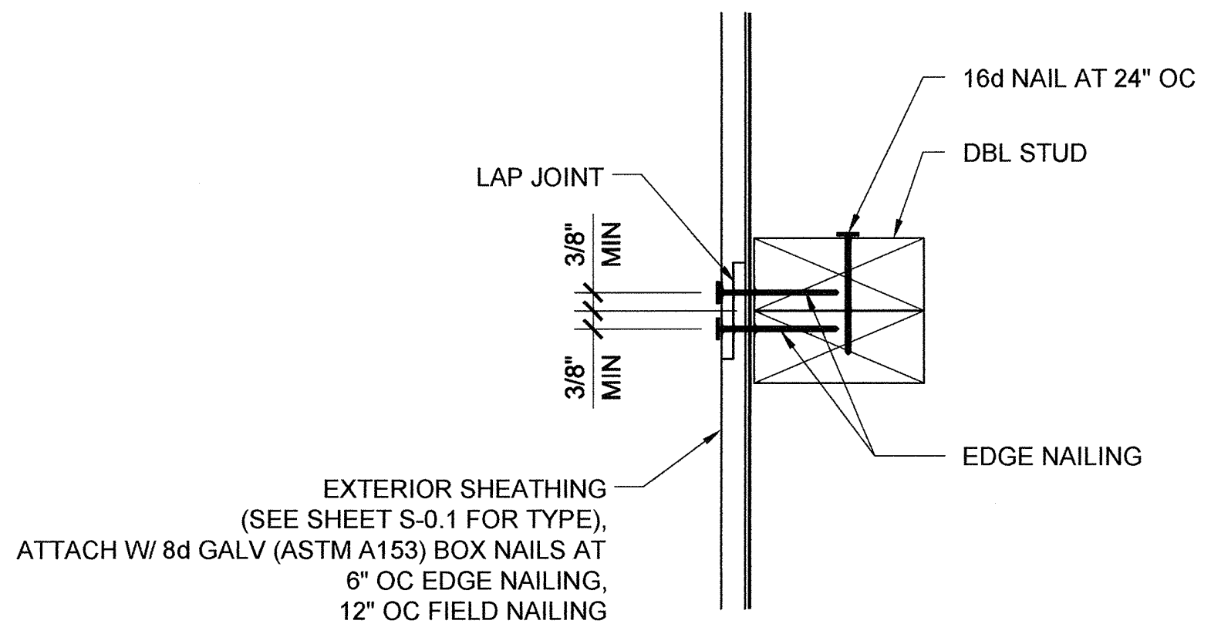
LET-IN BLOCK ATTACHMENT

SCALE : 3"=1'-0" 14

DOOR	WINDOW	☐ STANDARD		☐ WELDED FRAME	
2070		26"	85"	28 1/4"	86 1/4"
3070		38"	85"	40 1/4"	86 1/4"
4070		50"	85"	52 1/4"	86 1/4"
6070		74"	85"	76 1/4"	86 1/4"
	4040	47 3/4"	47 5/8"	52 1/4"	52 1/4"
	6040	71 3/4"	47 5/8"	76 1/4"	52 1/4"
	8040	95 3/4"	47 5/8"	100 1/4"	52 1/4"
	6020	71 3/4"	23 5/8"	76 1/4"	28 1/4"
	8020	95 3/4"	23 5/8"	100 1/4"	28 1/4"

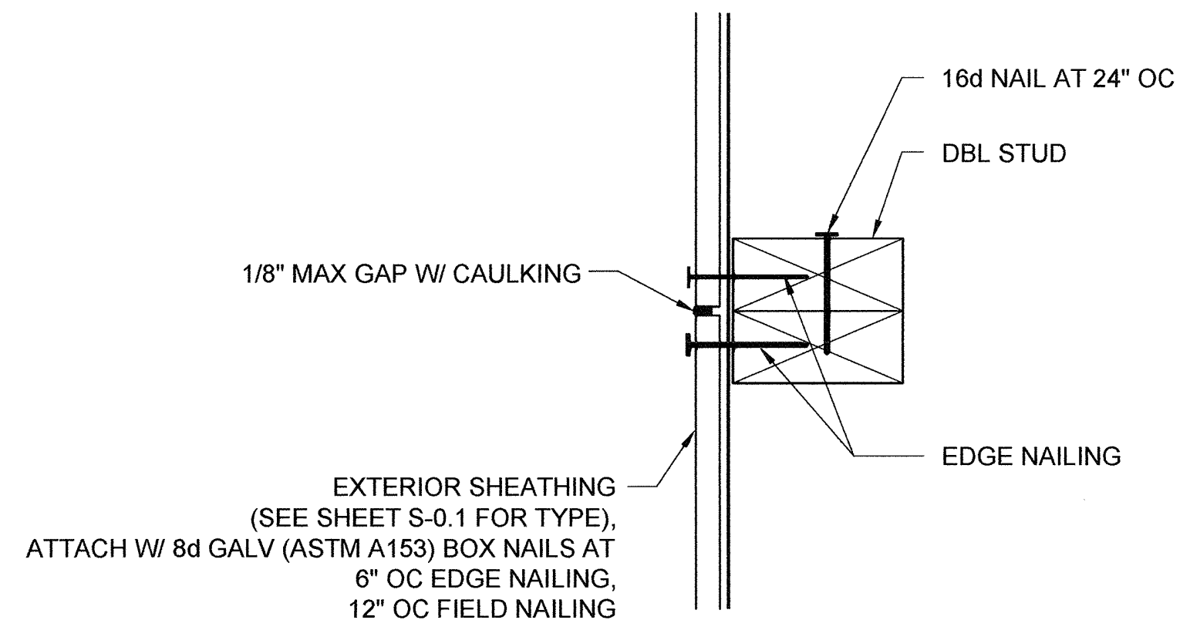
ROUGH OPENING SCHEDULE

15



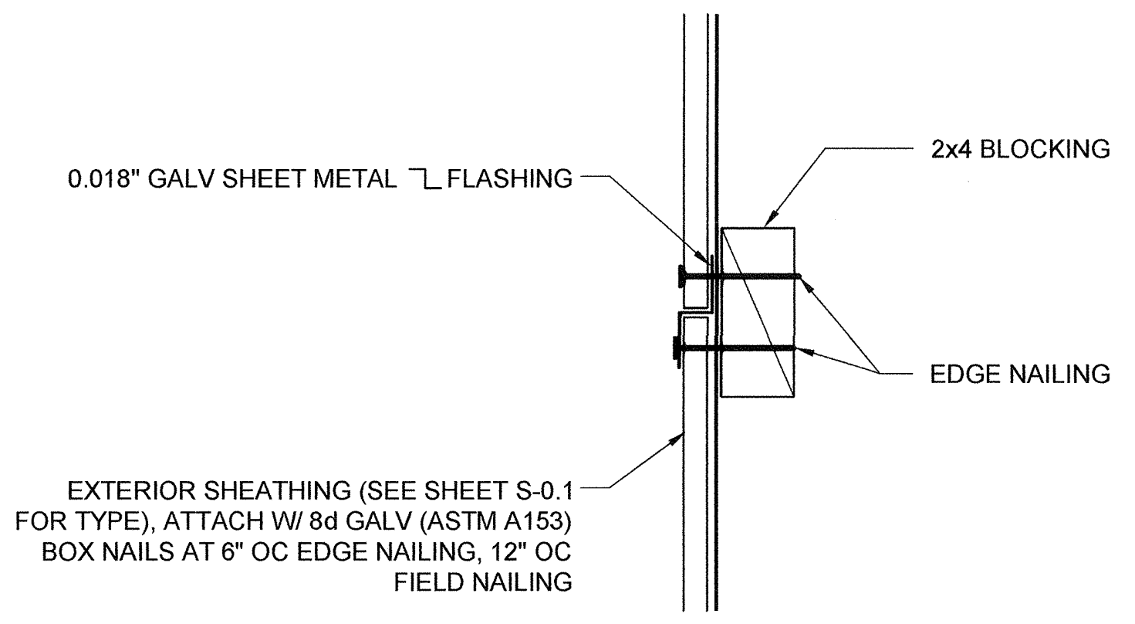
VERTICAL SHEATHING LAP JOINT

SCALE : 3"=1'-0" 6



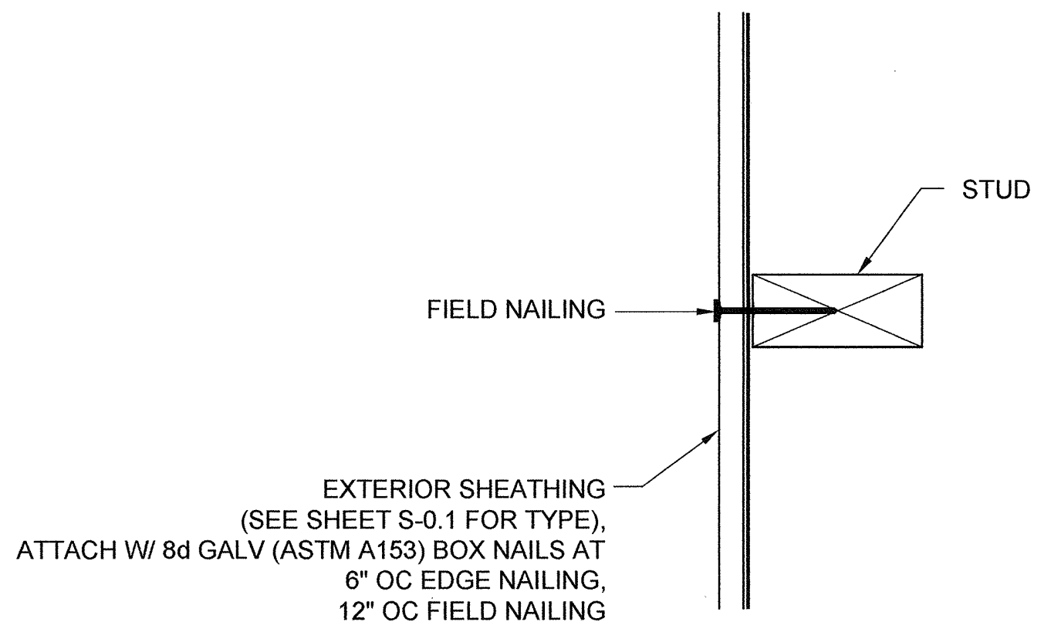
VERTICAL SHEATHING BUTT JOINT

SCALE : 3"=1'-0" 7


0.018" GALV SHEET METAL ⅂_ FLASHING
2x4 BLOCKING
EDGE NAILING
EXTERIOR SHEATHING (SEE SHEET S-0.1
FOR TYPE), ATTACH W/ 8d GALV (ASTM A153)
BOX NAILS AT 6" OC EDGE NAILING, 12" OC
FIELD NAILING

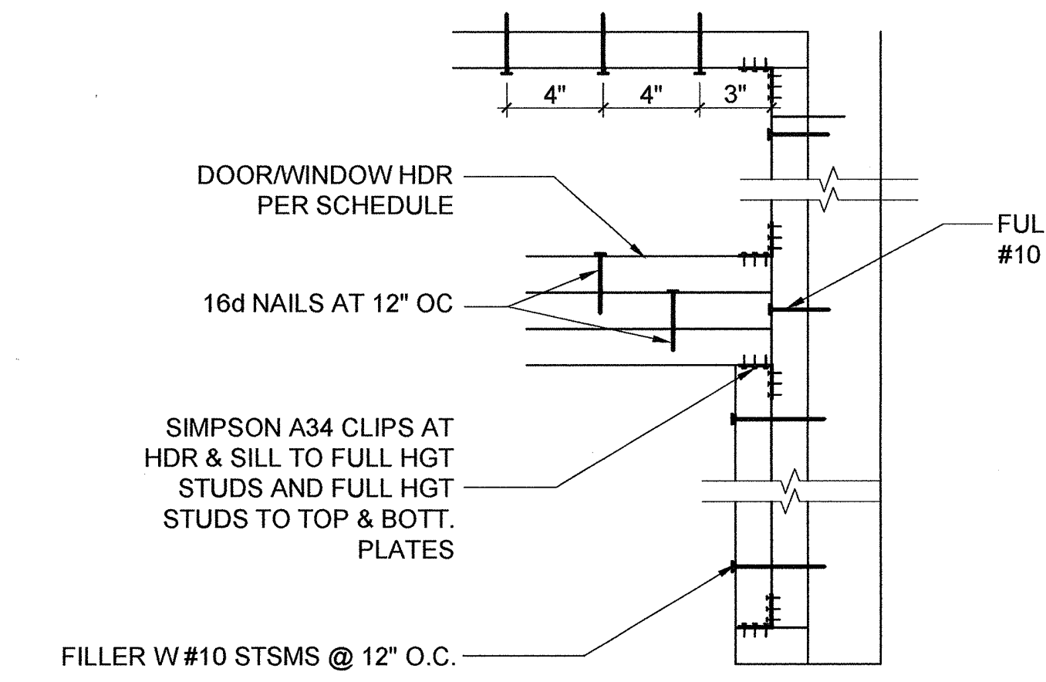
HORIZONTAL SHEATHING JOINT

SCALE : 3"=1'-0" 8



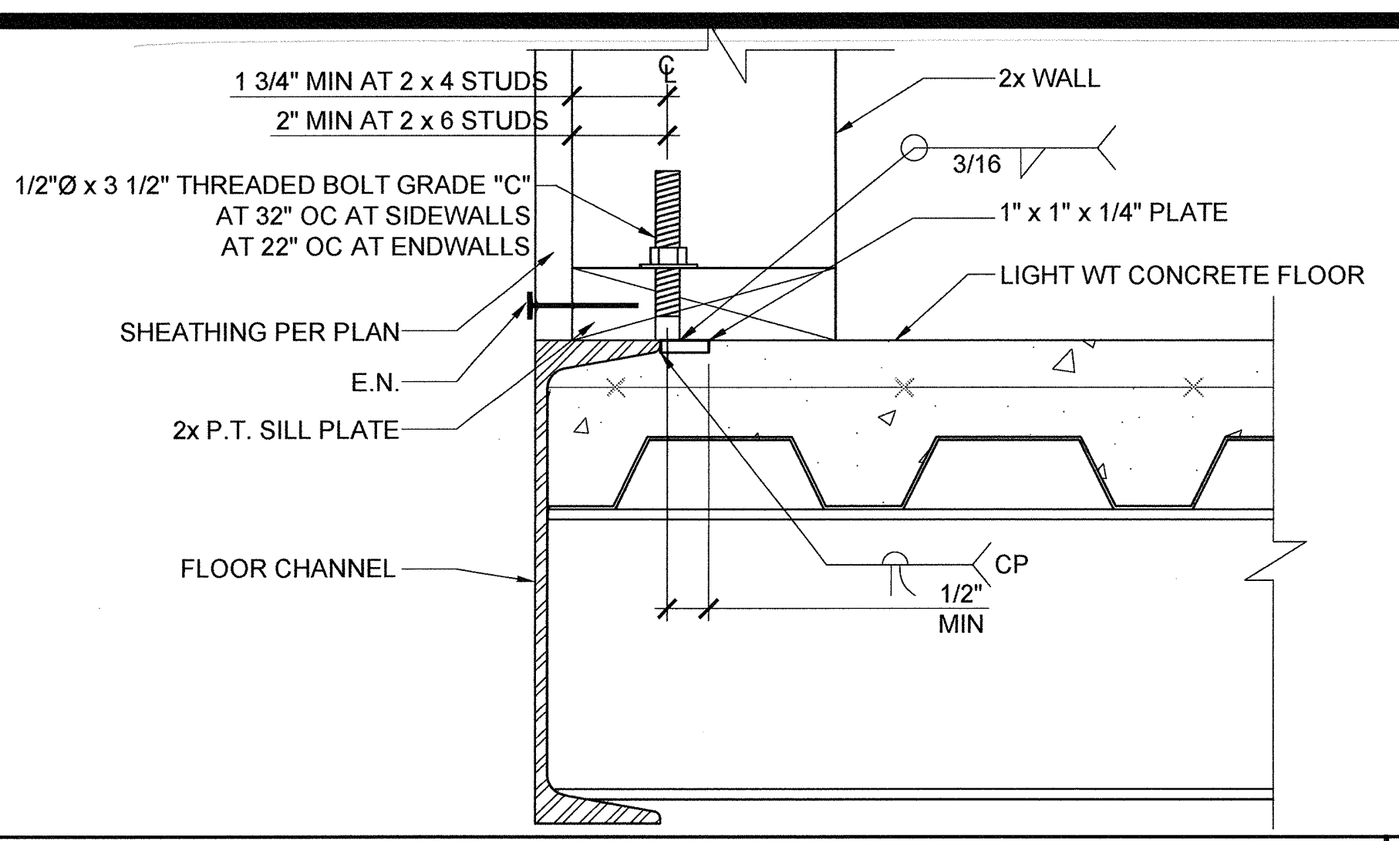
SECTION AT SHEATHING TO STUD ATTACHMENT

SCALE : 3"=1'-0" 9



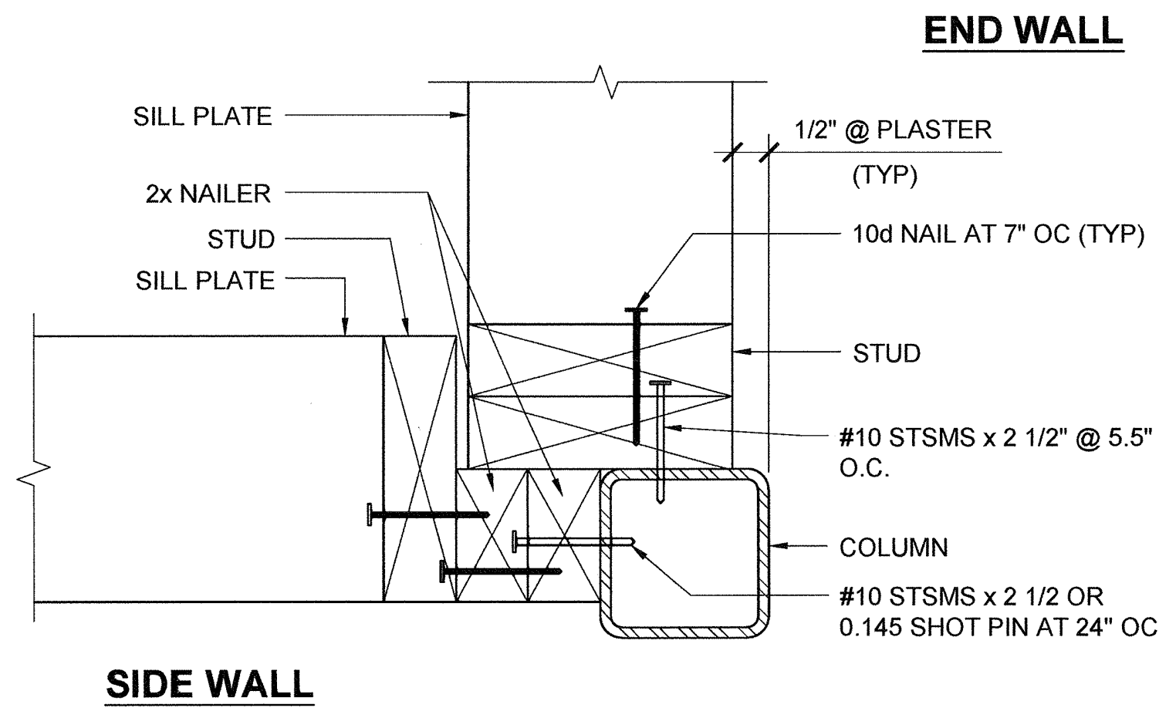
DOOR/WINDOW HEADER @ COLUMN

SCALE : 1 1/2"=1'-0" 10



OPTIONAL BOLTED WALL TO FLOOR

SCALE : NTS 1



COLUMN AT ENDWALL (2x4)

SCALE : 3"=1'-0" 2

NOT USED

NOT USED

NOT USED

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SILVER CREEK INDUSTRIES, INC.
SILVER
CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
WALL FRAMING
DETAILS
WOOD STUDS

R&S TAVARES
ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#15008
01/23/2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

REVISIONS
1
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SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER
S-5.10-M1

14

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER **	HEADER SIZE **	HEADER LUMBER	HEADER TYPE	SILL NUMBER **	SILL SIZE **	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER **	FULL HEIGHT KING STUD SIZE **	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER **	HEADER SIZE **	HEADER LUMBER	HEADER TYPE	SILL NUMBER **	SILL SIZE **	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER **	FULL HEIGHT KING STUD SIZE **	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(3)	2X6	HF	#2
		W/ PLASTER (OPT)	(2)	2X6	DF	#2	(2)	2X6	DF	#2	(2)	2X6	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x6 OPENING STUDS SCHEDULE

19

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING NUMBER **	WOOD WALL FRAMING SIZE **	WOOD WALL FRAMING LUMBER	WOOD WALL FRAMING TYPE	WOOD WALL FRAMING OC	4' CORNER OF WOOD WALL FRAMING (ZONE 5) NUMBER **	4' CORNER OF WOOD WALL FRAMING (ZONE 5) SIZE **	4' CORNER OF WOOD WALL FRAMING (ZONE 5) LUMBER	4' CORNER OF WOOD WALL FRAMING (ZONE 5) TYPE	4' CORNER OF WOOD WALL FRAMING (ZONE 5) OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

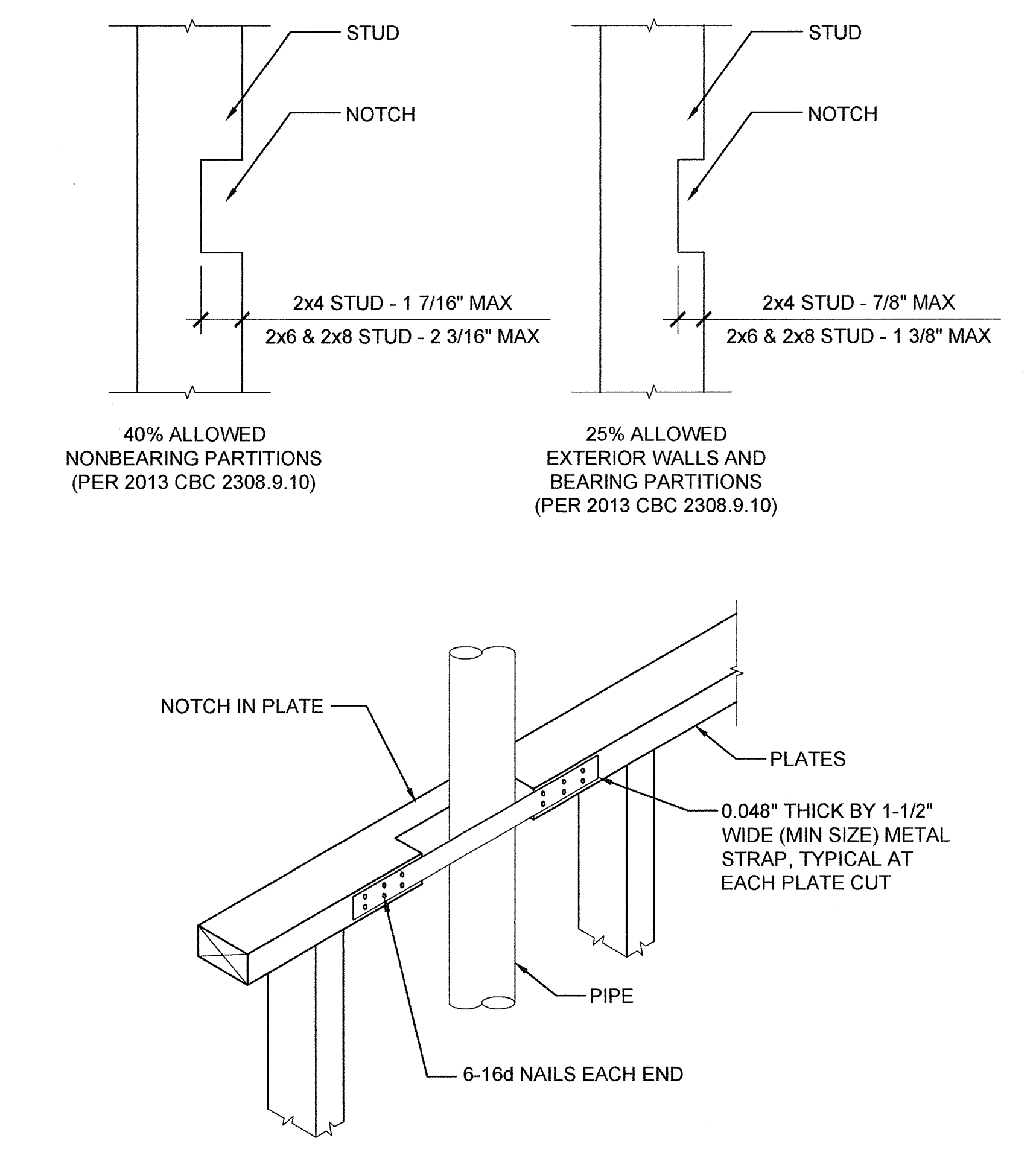
NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

2x6 WALL FRAMING SCHEDULE

20

12

NOT USED

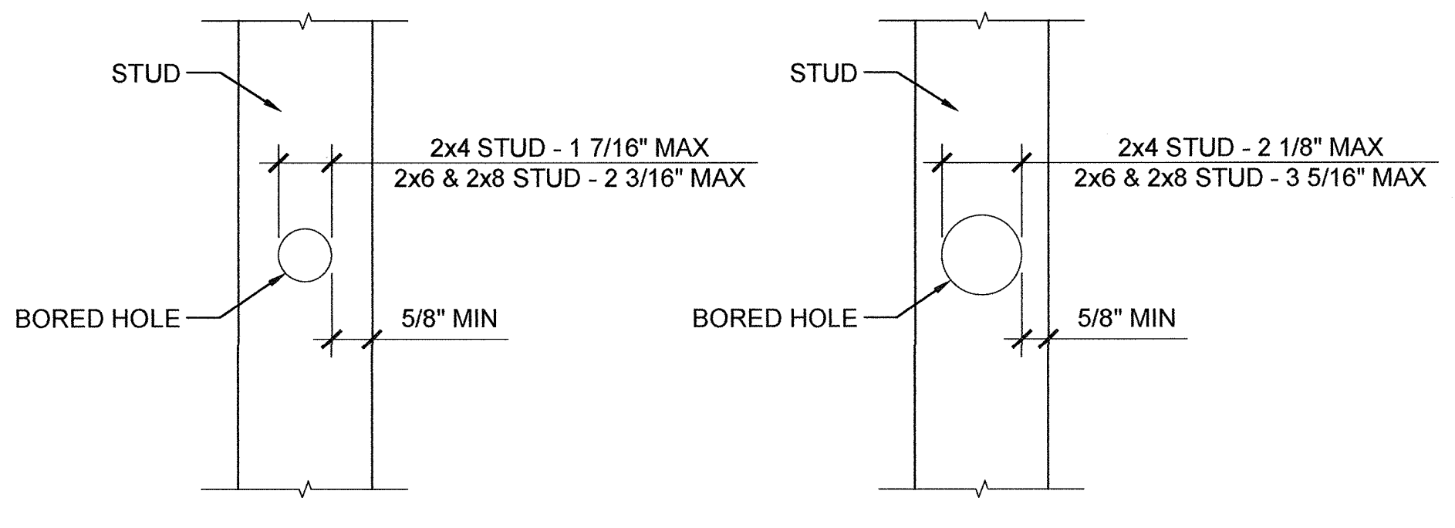

STUD
NOTCH
2x4 STUD - 1 7/16" MAX
2x6 & 2x8 STUD - 2 3/16" MAX
STUD
NOTCH
2x4 STUD - 7/8" MAX
2x6 & 2x8 STUD - 1 3/8" MAX
NOTCH IN PLATE
PLATES
0.048" THICK BY 1-1/2" WIDE (MIN SIZE) METAL STRAP, TYPICAL AT EACH PLATE CUT
PIPE
6-16d NAILS EACH END

40% ALLOWED
NONBEARING PARTITIONS
(PER 2013 CBC 2308.9.10)

25% ALLOWED
EXTERIOR WALLS AND
BEARING PARTITIONS
(PER 2013 CBC 2308.9.10)

CUTTING AND NOTCHING

SCALE : 1 1/2" = 1'-0" 7



40% ALLOWED
ANY WALL
(PER 2013 CBC 2308.9.11)

60% ALLOWED IN ANY NONBEARING PARTITIONS
OR IN ANY WALL WHERE EACH BORED STUD IS DOUBLED
BORED HOLE NOT PERMITTED IN MORE THAN TWO
SUCCESSIVE DOUBLED STUDS
(PER 2013 CBC 2308.9.11)

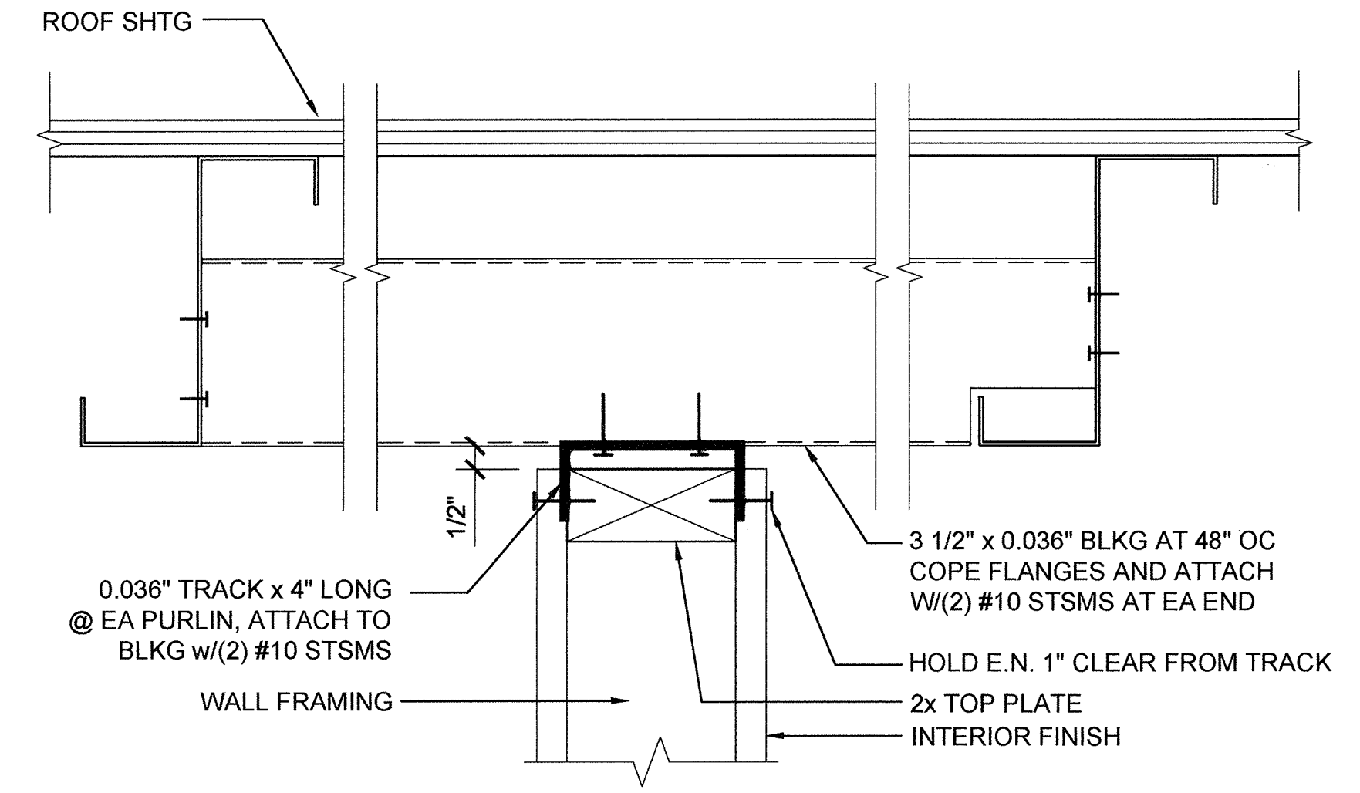
BORED HOLES

SCALE : 1 1/2" = 1'-0" 8

9

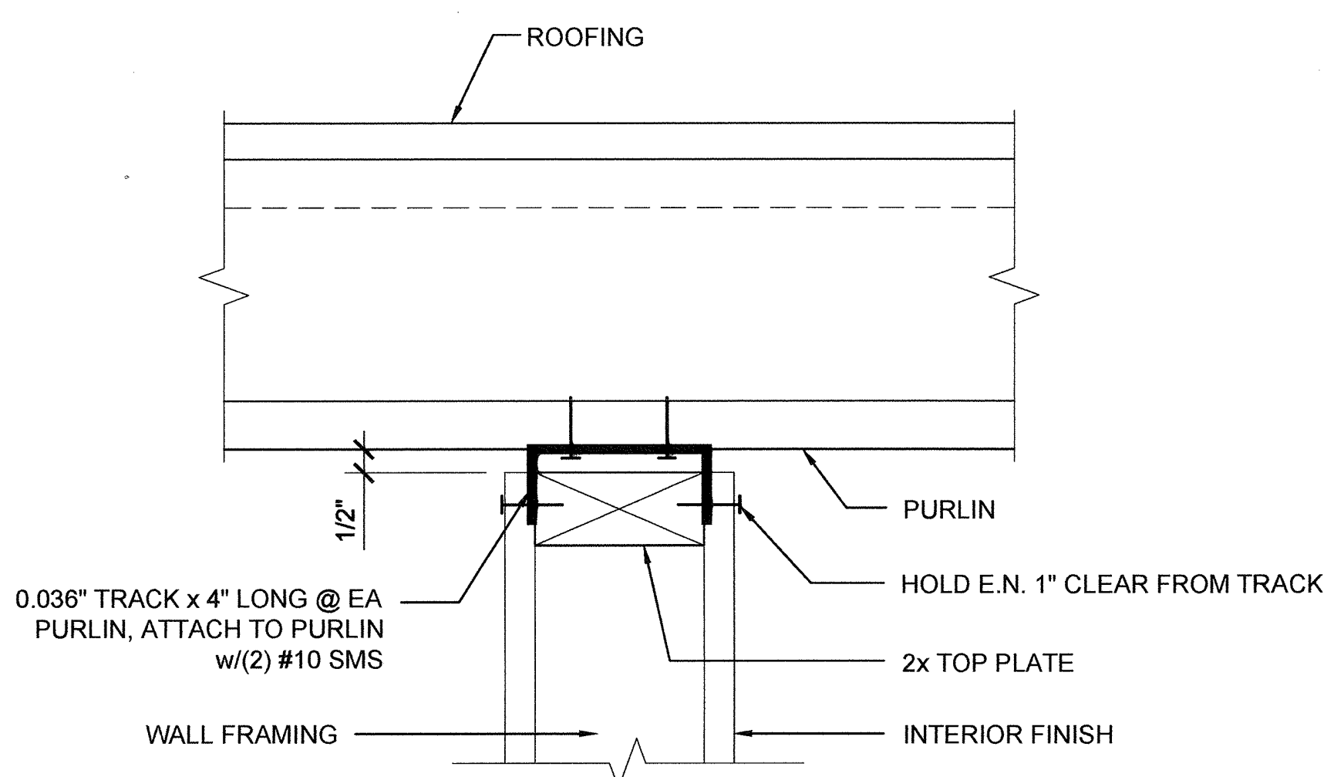
NOT USED

10


ROOF SHTG
1/2"
0.036" TRACK x 4" LONG @ EA PURLIN, ATTACH TO BLKG w/(2) #10 STSMS
WALL FRAMING
3 1/2" x 0.036" BLKG AT 48" OC COPE FLANGES AND ATTACH W/(2) #10 STSMS AT EA END
HOLD E.N. 1" CLEAR FROM TRACK
2x TOP PLATE
INTERIOR FINISH

FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" 1

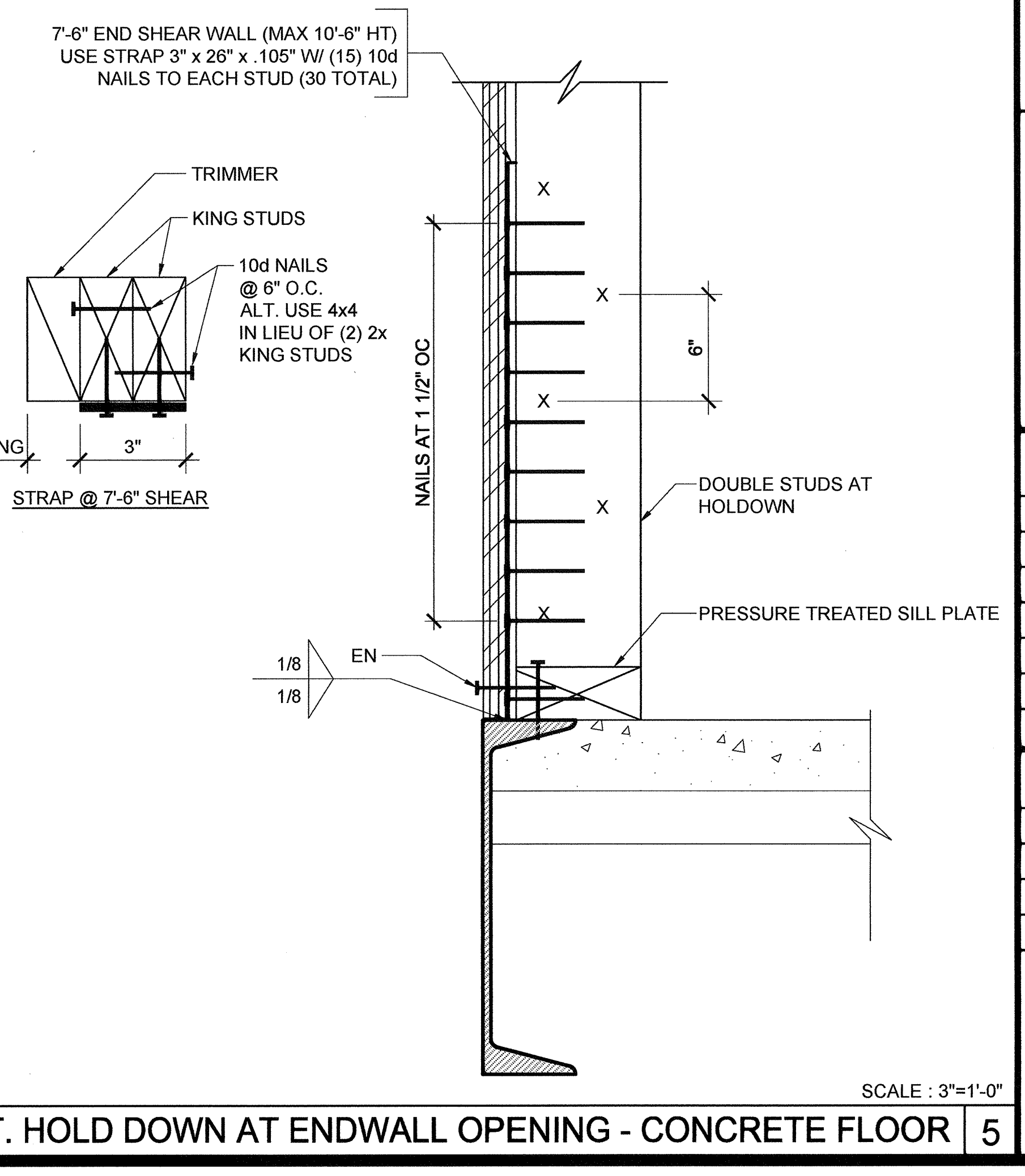

ROOFING
1/2"
0.036" TRACK x 4" LONG @ EA PURLIN, ATTACH TO PURLIN w/(2) #10 SMS
WALL FRAMING
PURLIN
HOLD E.N. 1" CLEAR FROM TRACK
2x TOP PLATE
INTERIOR FINISH

FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" 2

NOT USED

3


7'-6" END SHEAR WALL (MAX 10'-6" HT) USE STRAP 3" x 26" x .105" W/ (15) 10d NAILS TO EACH STUD (30 TOTAL)
TRIMMER
KING STUDS
10d NAILS @ 6" O.C. ALT. USE 4x4 IN LIEU OF (2) 2x KING STUDS
OPNG
3"
STRAP @ 7'-6" SHEAR
NAILS AT 1 1/2" OC
X
X
X
X
X
6"
DOUBLE STUDS AT HOLDOWN
PRESSURE TREATED SILL PLATE
EN
1/8
1/8

SCALE : 3"=1'-0"

ALT. HOLD DOWN AT ENDWALL OPENING - CONCRETE FLOOR

5

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

WALL FRAMING
DETAILS
WOOD STUDS

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

MANNY D. FRISCH
No. S3380
RST#45008
01/23/2017

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Date FEB 0 3 2017

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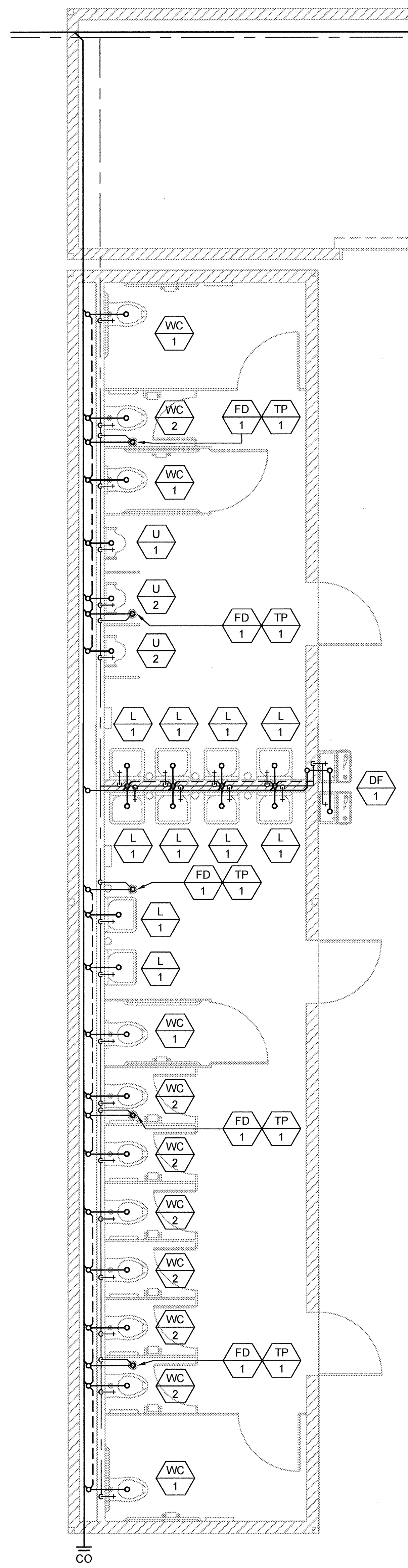
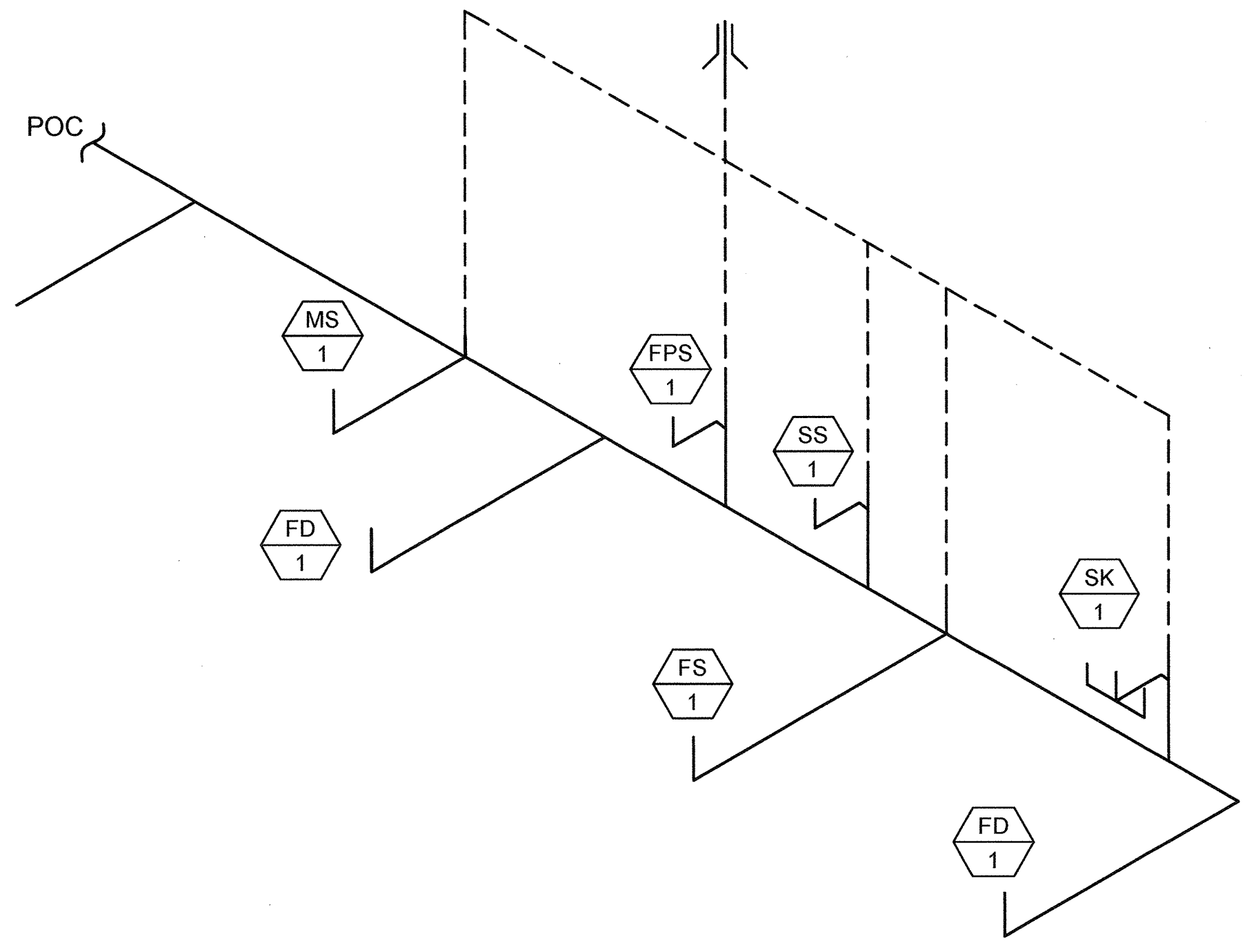
SILVER CREEK INDUSTRIES

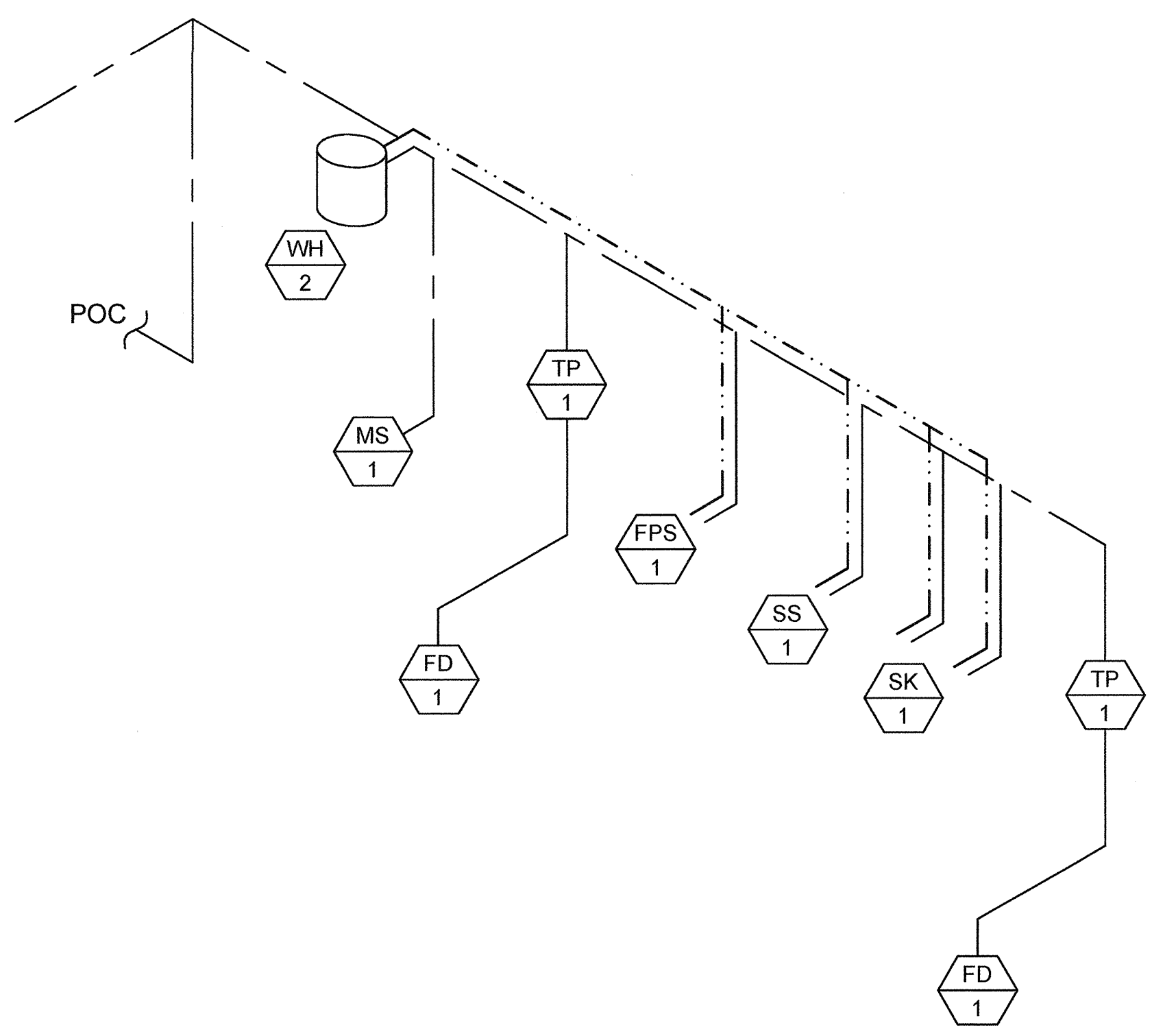
PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

S-5.11-M1







PLUMBING PLAN

SCALE: 1/4" = 1' - 0"

1

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

PLUMBING PLAN
AND ISOMETRICS
MODEL A-1 OR A-2
"ADULT"

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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SILVER CREEK INDUSTRIES

PROJECT NO:	10644
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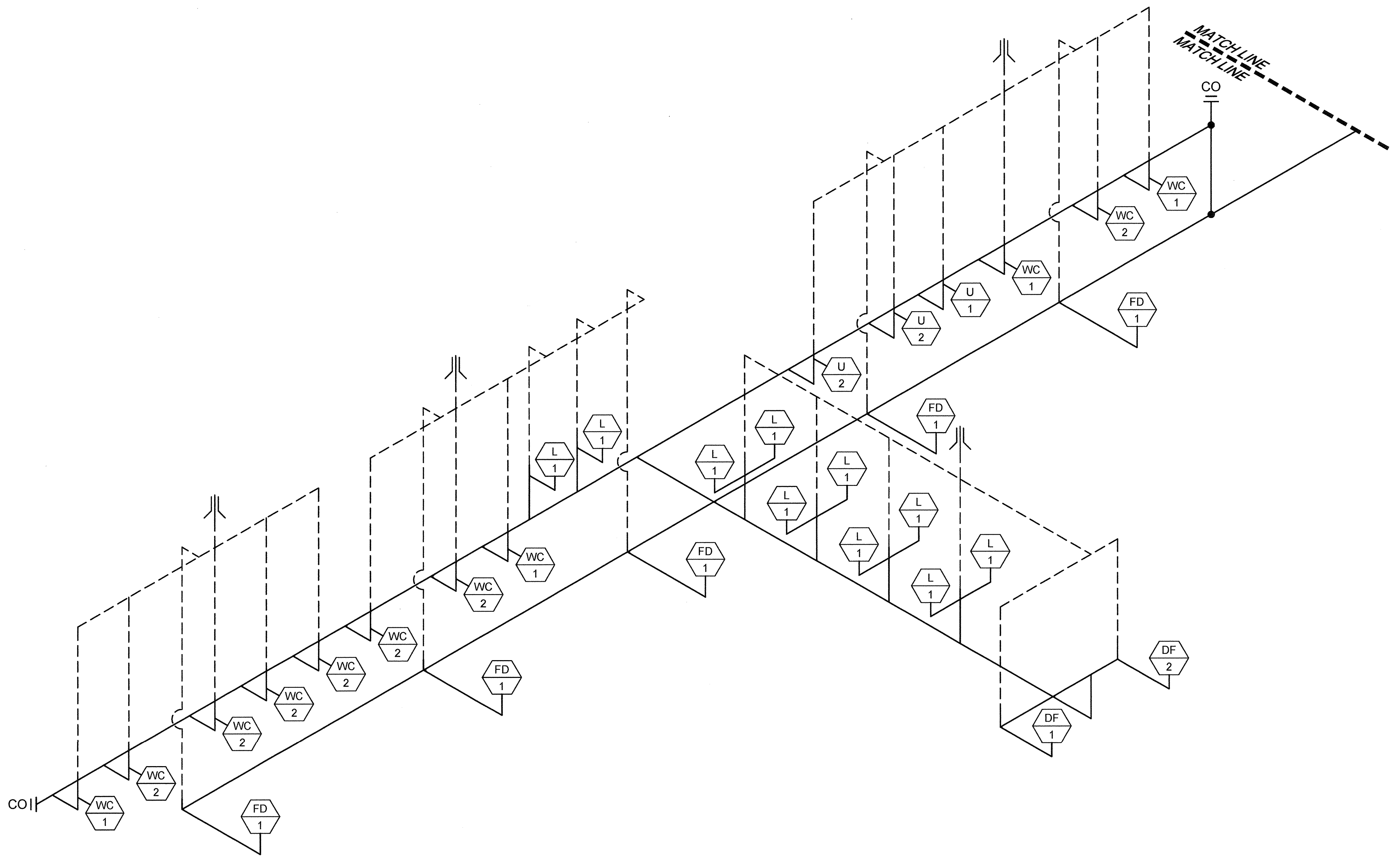
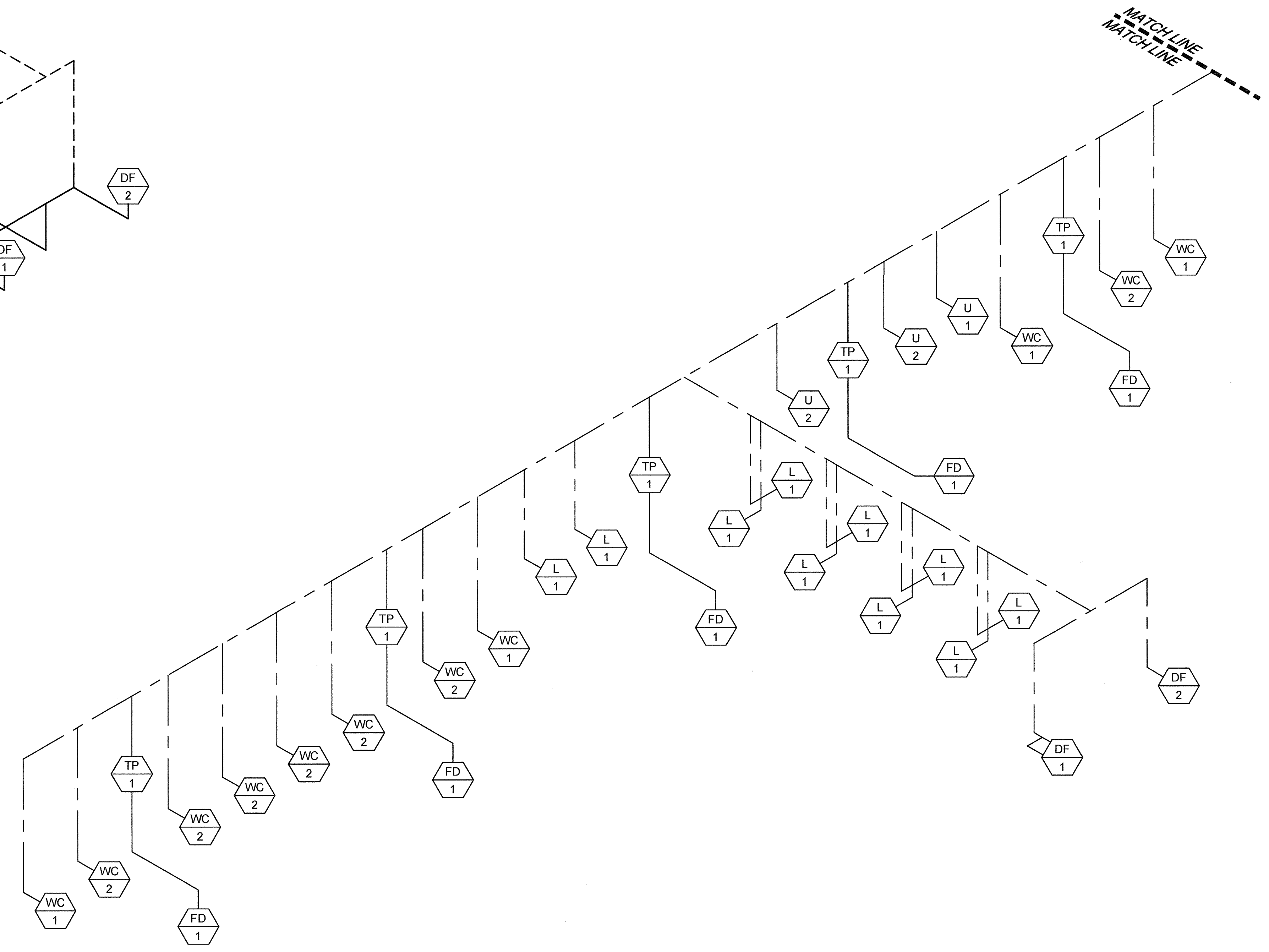
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

P-1.01-M1





PLUMBING ISOMETRICS

A

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

PLUMBING PLAN
AND ISOMETRICS
MODEL A-1 OR A-2
"ADULT"

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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SILVER CREEK INDUSTRIES

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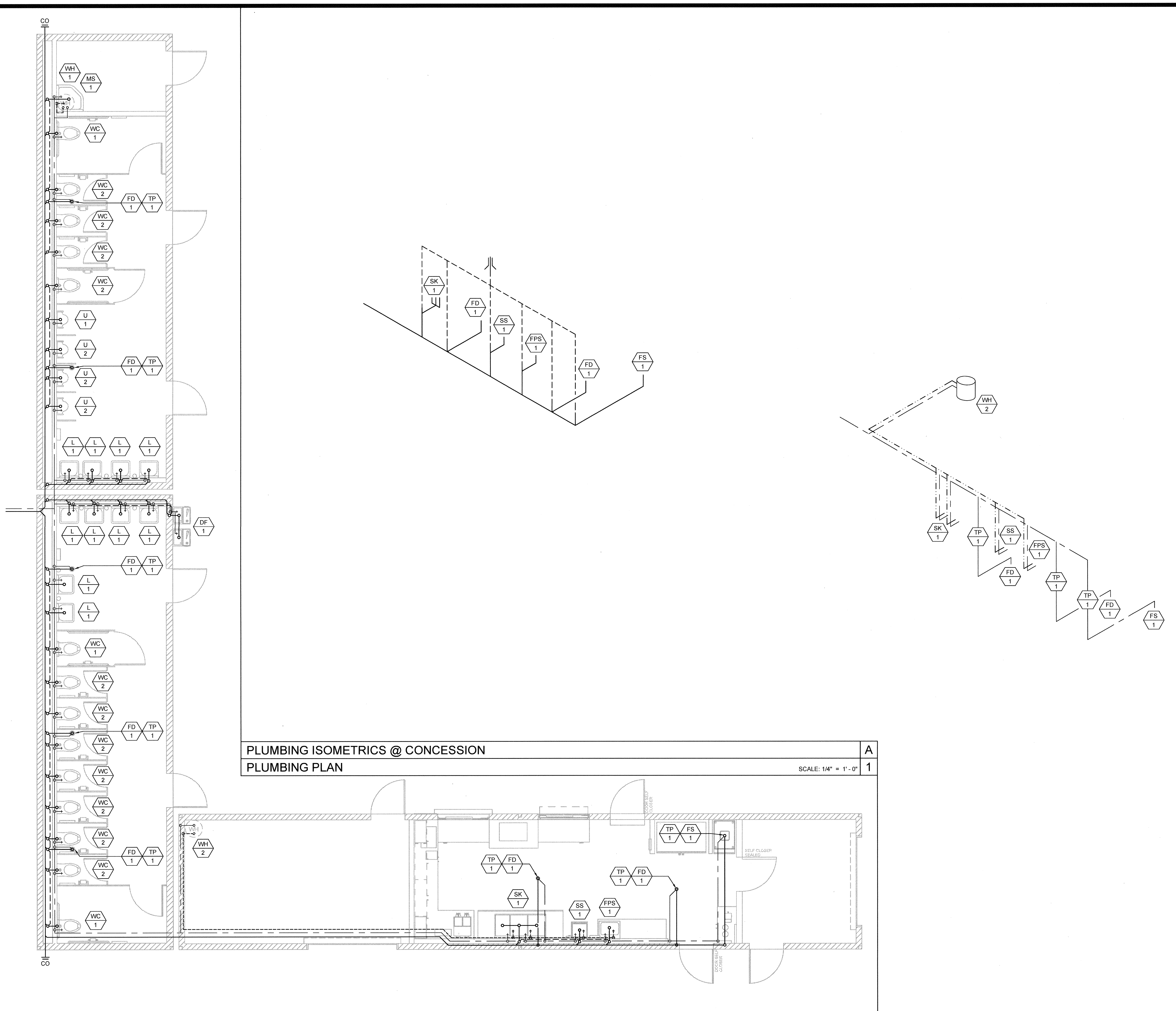

PLUMBING ISOMETRICS @ CONCESSION A

PLUMBING PLAN SCALE: 1/4" = 1' - 0" 1

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PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

PLUMBING PLAN
AND ISOMETRICS
MODEL B-1 OR B-2
"ADULT"

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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SILVER CREEK INDUSTRIES

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SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

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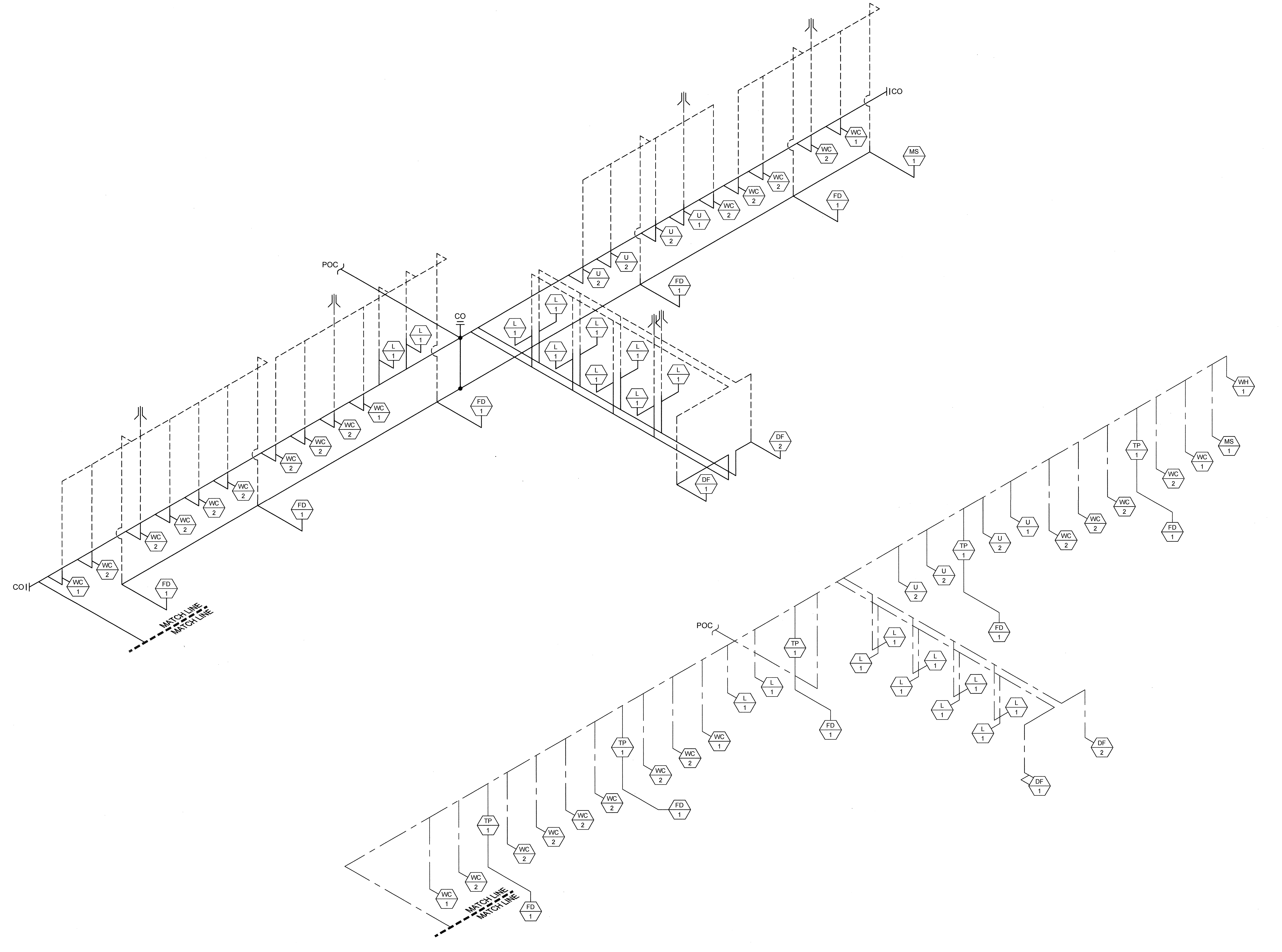

PLUMBING ISOMETRICS

A

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EL MONTE UNIFIED SCHOOL DISTRICT
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PLUMBING PLAN
AND ISOMETRICS
MODEL B-1 OR B-2
"ADULT"

JACK F. SHIVELY III
C-33467
REN 01-31-2017

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AC N.N. FLS 66 SS
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SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

SHEET NUMBER

P-1.02a-M1

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

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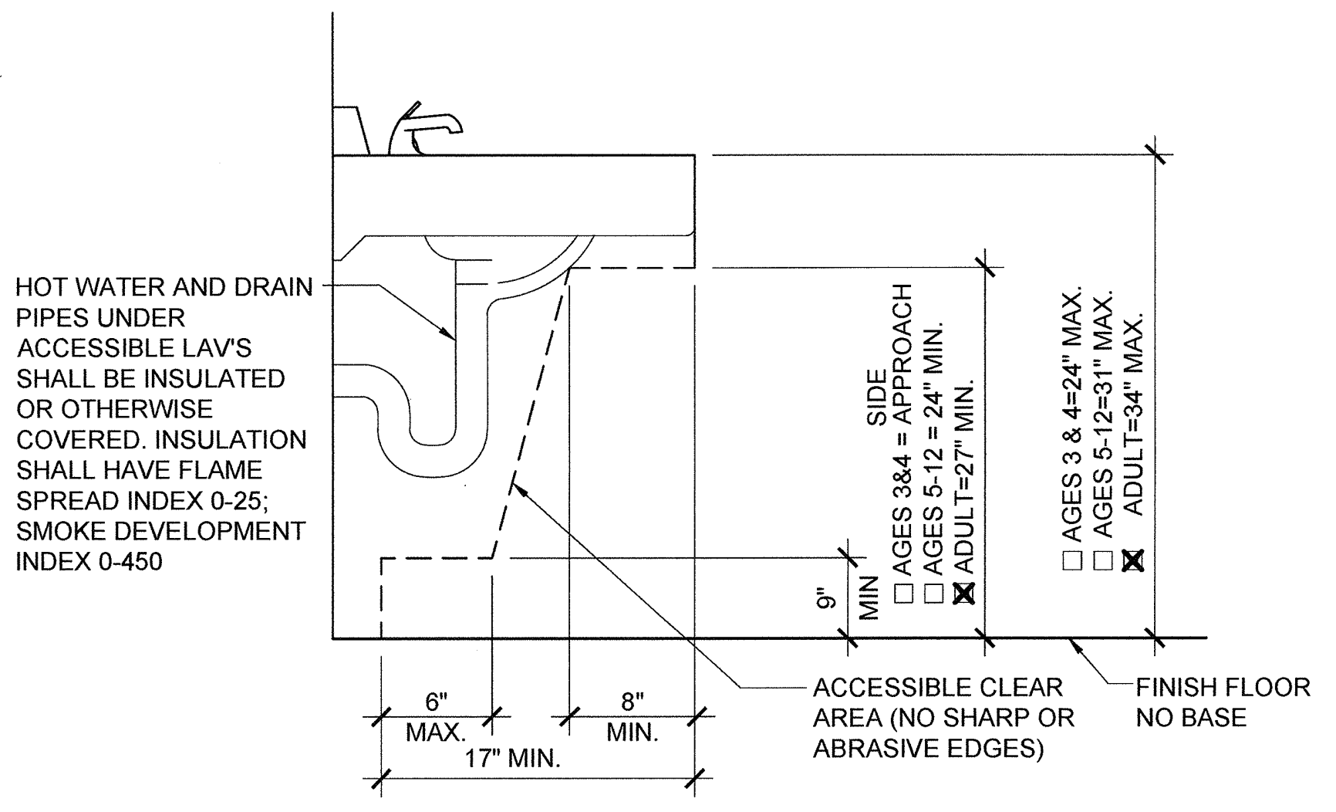
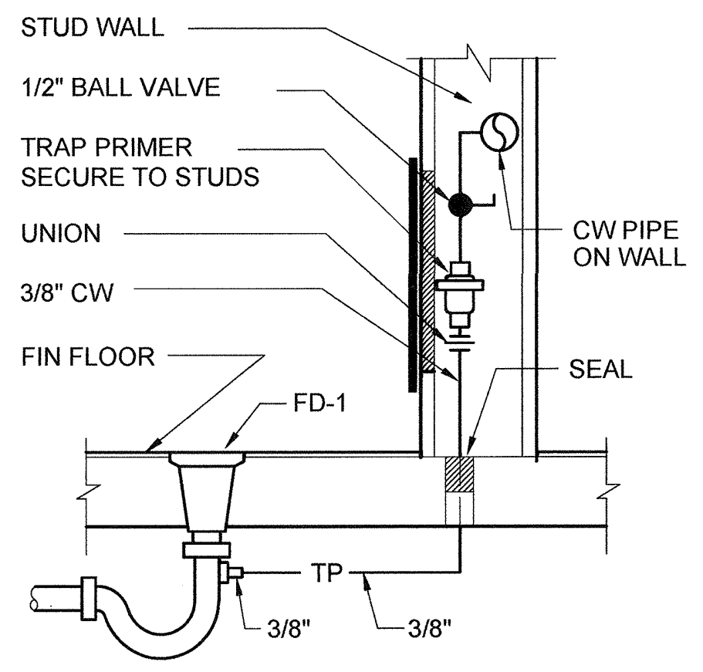

HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAV'S SHALL BE INSULATED OR OTHERWISE COVERED. INSULATION SHALL HAVE FLAME SPREAD INDEX 0-25; SMOKE DEVELOPMENT INDEX 0-450
SIDE
☐ AGES 3&4 = APPROACH
☐ AGES 5-12 = 24" MIN.
☒ ADULT=27" MIN.
9" MIN
☐ AGES 3 & 4=24" MAX.
☐ AGES 5-12=31" MAX.
☒ ADULT=34" MAX.
6" MAX.
8" MIN.
17" MIN.
ACCESSIBLE CLEAR AREA (NO SHARP OR ABRASIVE EDGES)
FINISH FLOOR NO BASE

ACCESSIBLE LAV CLEARANCE

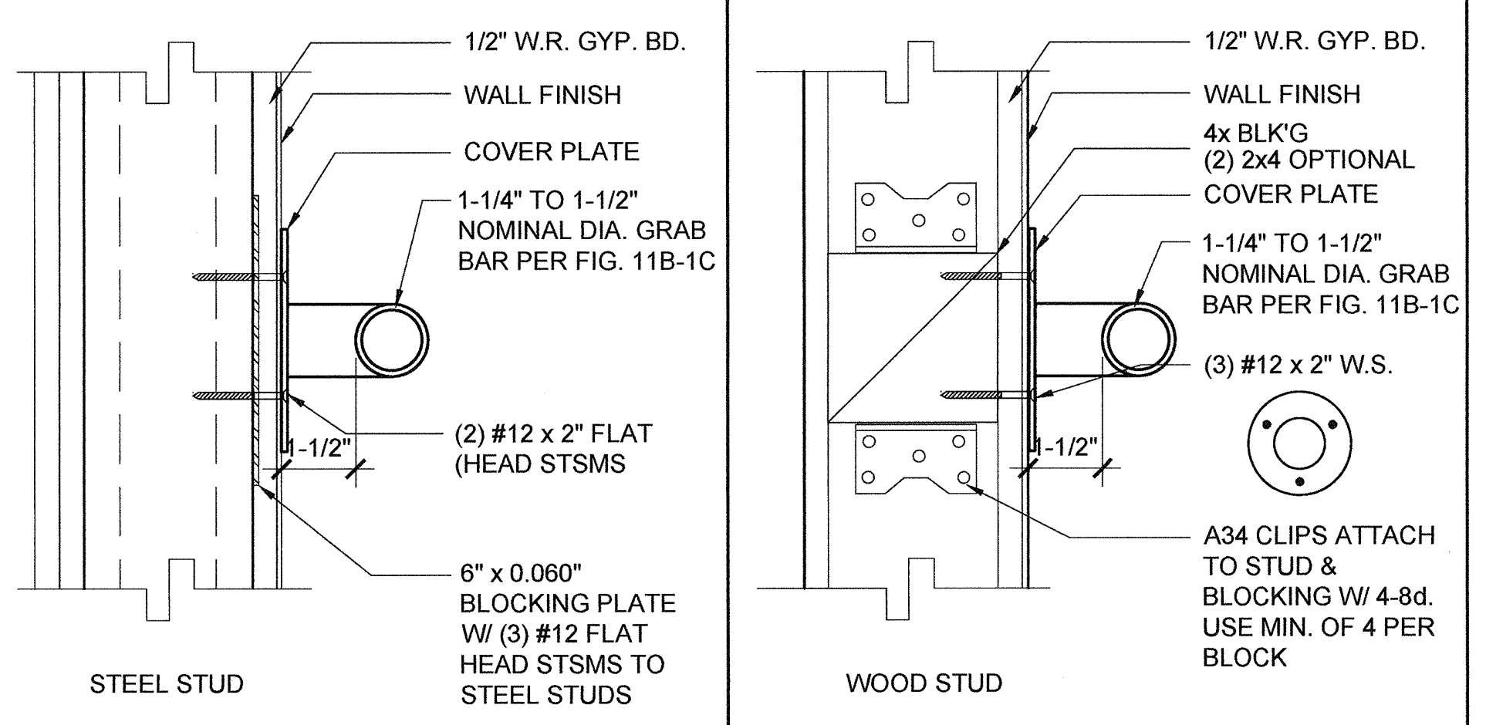
SCALE: N.T.S. 6

NOT USED 7



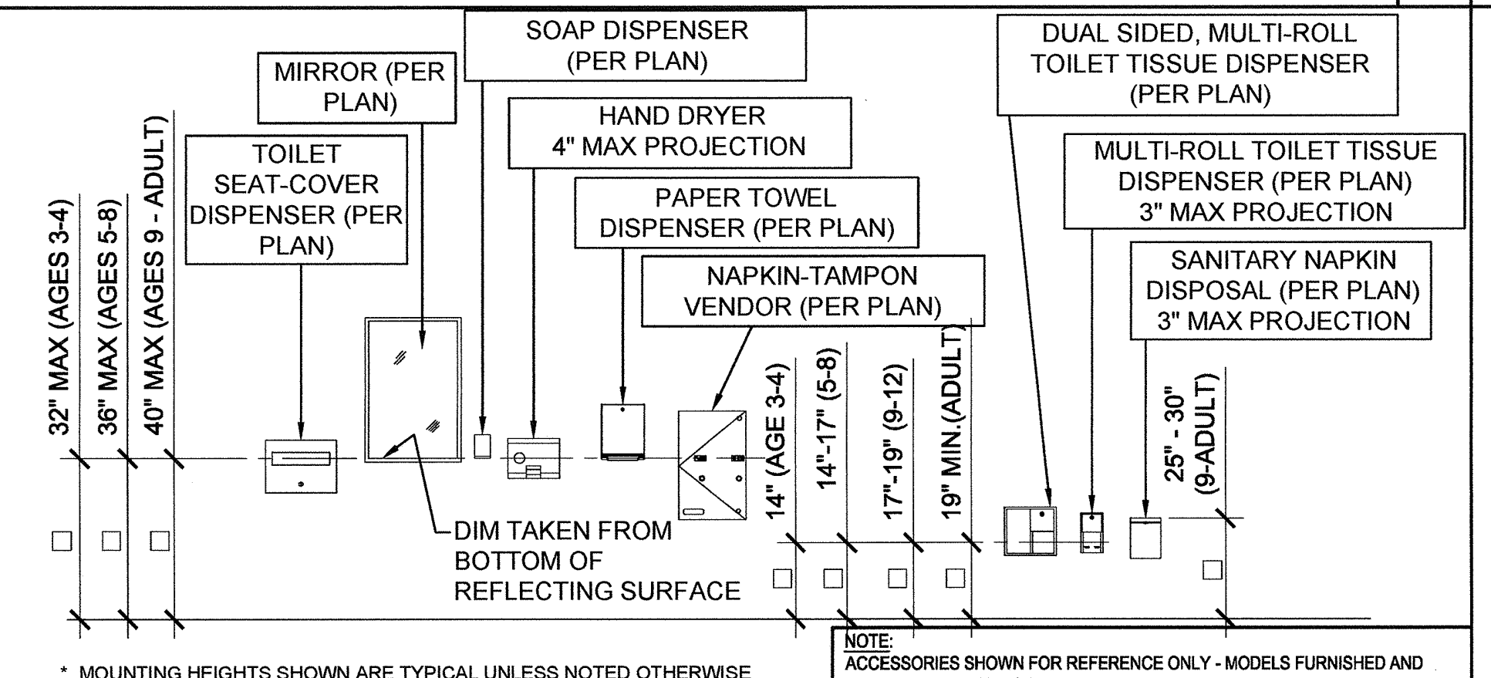
TRAP PRIMER TO FLOOR DRAIN

SCALE: N.T.S. 8


1/2" W.R. GYP. BD.
WALL FINISH
COVER PLATE
1-1/4" TO 1-1/2" NOMINAL DIA. GRAB BAR PER FIG. 11B-1C
1-1/2"
(2) #12 x 2" FLAT (HEAD STSMS
6" x 0.060" BLOCKING PLATE W/ (3) #12 FLAT HEAD STSMS TO STEEL STUDS
STEEL STUD
1/2" W.R. GYP. BD.
WALL FINISH
4x BLK'G (2) 2x4 OPTIONAL
COVER PLATE
1-1/4" TO 1-1/2" NOMINAL DIA. GRAB BAR PER FIG. 11B-1C
(3) #12 x 2" W.S.
1-1/2"
A34 CLIPS ATTACH TO STUD & BLOCKING W/ 4-8d. USE MIN. OF 4 PER BLOCK
WOOD STUD

GRAB BAR CONNECTION DETAIL

9


SOAP DISPENSER (PER PLAN)
MIRROR (PER PLAN)
TOILET SEAT-COVER DISPENSER (PER PLAN)
HAND DRYER 4" MAX PROJECTION
PAPER TOWEL DISPENSER (PER PLAN)
NAPKIN-TAMPON VENDOR (PER PLAN)
DUAL SIDED, MULTI-ROLL TOILET TISSUE DISPENSER (PER PLAN)
MULTI-ROLL TOILET TISSUE DISPENSER (PER PLAN) 3" MAX PROJECTION
SANITARY NAPKIN DISPOSAL (PER PLAN) 3" MAX PROJECTION
32" MAX (AGES 3-4)
36" MAX (AGES 5-8)
40" MAX (AGES 9 - ADULT)
DIM TAKEN FROM BOTTOM OF REFLECTING SURFACE
14" (AGE 3-4)
14"-17" (5-8)
17"-19" (9-12)
19" MIN.(ADULT)
25" - 30" (9-ADULT)

* MOUNTING HEIGHTS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE

MAXIMUM 4" PROJECTION FOR ALL ACCESSORIES (UNO)

NOTE:
ACCESSORIES SHOWN FOR REFERENCE ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT.
"DISTRICT" MUST SUBMIT CUT SHEETS TO D.S.A. FOR REVIEW/COMMENT/APPROVAL.

TOILET ACCESSORIES MOUNTING HEIGHTS

10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	~~AGES 9 THROUGH 12~~	~~AGES 5 THROUGH 8~~	~~AGES 3 AND 4~~
TOILET CENTERING FROM WALL	17" - 18"	~~15" - 18"~~	~~12" - 15"~~	~~12"~~
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	~~15" - 17"~~	~~12" - 15"~~	~~11" - 12"~~
GRAB BAR HEIGHT (TO TOP)	33" - 36"	~~25" - 27"~~	~~20" - 25"~~	~~18" - 20"~~
TOILET PAPER IN FRONT OF TOILET	7" - 9"	~~7" - 9"~~	~~7" - 9"~~	~~7" - 9"~~
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	~~12" MAX.~~	~~N/A~~	~~N/A~~
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	~~40" MAX.~~	~~36" MAX.~~	~~32" MAX.~~
DISPENSER HEIGHT	19" MIN.	~~17" - 19"~~	~~14" - 17"~~	~~14"~~
LAVATORY/SINK TOP HEIGHT	34" MAX.	~~31" MAX.~~	~~31" MAX.~~	~~24" MAX.~~
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	~~24" MIN.~~	~~24" MIN.~~	~~SIDE APPROACH~~
URINAL LIP HEIGHT	17" MAX.	~~17" MAX.~~	~~15" MAX~~	~~13" MIN.~~
URINAL FLUSH HANDLE HEIGHT	44" MAX.	~~44" MAX.~~	~~37" MAX.~~ *	~~32" MAX.~~ *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	~~30" MAX.~~	~~30" MAX.~~	~~30" MAX.~~
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	~~SIDE APPROACH~~	~~SIDE APPROACH~~	~~SIDE APPROACH~~
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38"	~~34" - 38"~~	~~34" - 38"~~	~~34" - 38"~~

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	~~AGES 9 THROUGH 12~~	~~AGES 5 THROUGH 8~~	~~AGES 3 AND 4~~
TOILET CENTERING FROM WALL/PARTITION	15" MIN	~~15" MIN~~	~~15" MIN~~	~~15" MIN~~
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	~~15"~~	~~15"~~	~~15"~~
TOILET CLEARANCE/FRONT	24"	~~24"~~	~~24"~~	~~24"~~
URINAL LIP HEIGHT	24"	~~24"~~	~~18"~~	~~16"~~
URINAL CENTER FROM WALL/PARTITION	12"	~~12"~~	~~12"~~	~~12"~~

PLUMBING ACCESSORIES (REF. ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A	SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION	C	TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
B	PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE	D	TOILET SEAT DISPENSER: SURFACE MOUNTED

* 44" MAX. PER CODE
[A] = ADULT; [E] = AGES 9-12; [K] = AGES 3-8

FIXTURE MOUNTING HEIGHTS

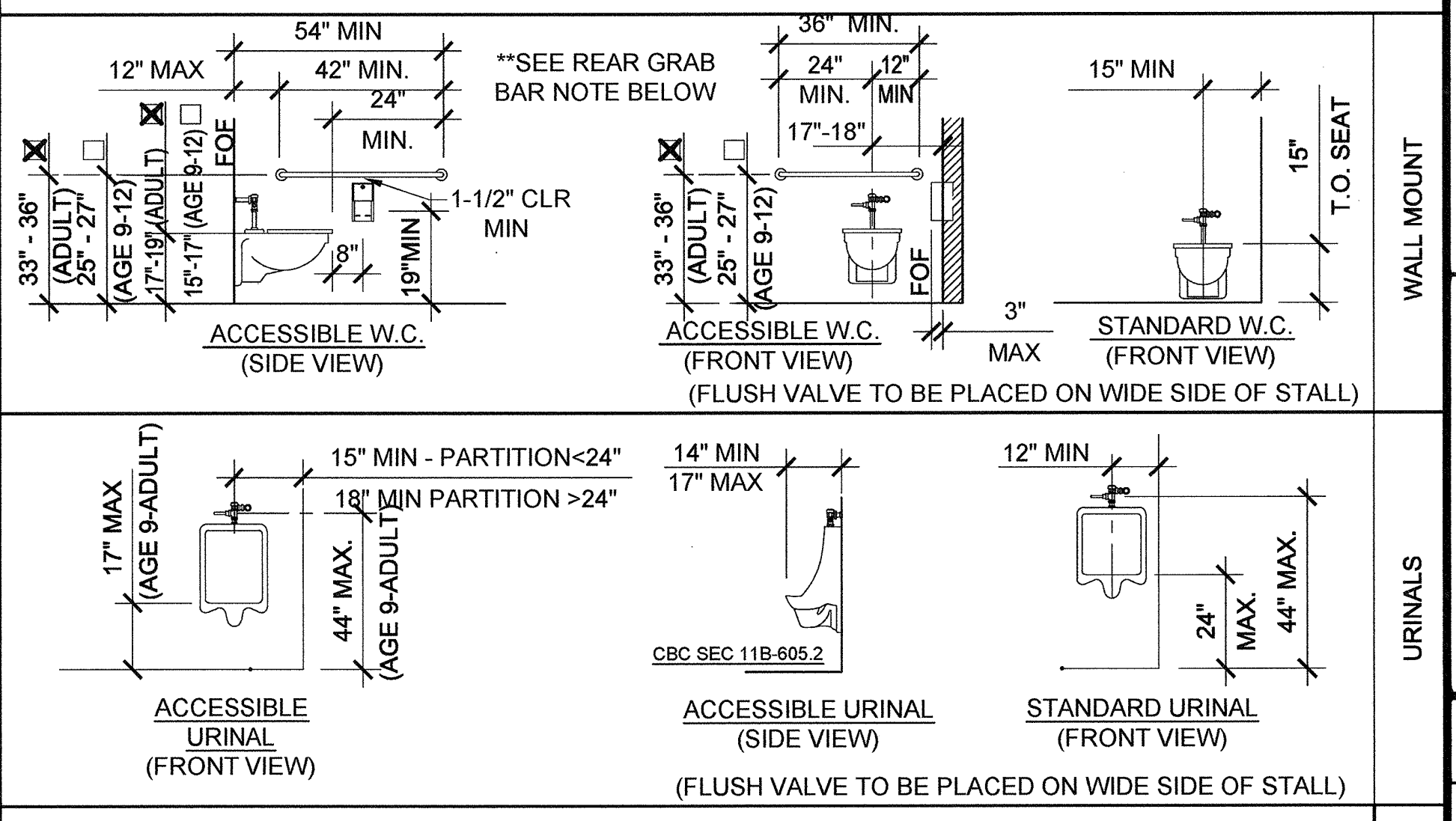
NOT USED

NOT USED

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD ADA PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 2	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD ADA PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (AMERICAN STANDARD 9141.011 TO BE USED @ KINDER APPLICATIONS ONLY) (0.5 GPM)
UR 1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.5 GPF) ALT: AMERICAN STANDARD 6550.005 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.5 LOW CONSUMPTION FLUSHOMETER VALVE
UR 2	URINAL (NON-ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.5 GPF) ALT: AMERICAN STANDARD 6550.005 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.5 LOW CONSUMPTION FLUSHOMETER VALVE
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/2" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
GB 1	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"X24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL
PAR 1	TOILET PARTITION	-	-	-	-	METAL POWDER COATED
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
WH 1	WATER HEATER (OPTION)	3/4"	3/4"	-	-	A.O. SMITH #DEL-10 (10 GALLON) w/ 2KW MIN. HEATING ELEMENT
WH 2	WATER HEATER (OPTION)	3/4"	3/4"	-	-	A.O. SMITH (30 GALLON) LOW BOY w/ 9KW MIN. HEATING ELEMENT
DF 1	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	HAWS / BI-LEVEL 1119 / COOLING TYPE

** NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE REPLACED W/ A 24" GRAB BAR AND SHIFTED TO THE OPEN SIDE OF THE TOILET AREA PER 11B-604.5.2. PROVIDE A 24" GRAB BAR AT SAME ELEVATION AS THE SIDE GRAB BAR WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.



TOILET FIXTURE MOUNTING HEIGHTS(AGES 9 TO ADULT)

1

NOT USED

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

PLUMBING DETAILS AND SCHEDULE

C-33467
REN 01-31-2017

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC N.N. FLS EB SS
Date FEB 0 3 2017

REVISIONS

1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES

PROJECT NO: 10644
DRAWN BY: FIL C.
SCALE: AS NOTED
DATE: 02-18-2016

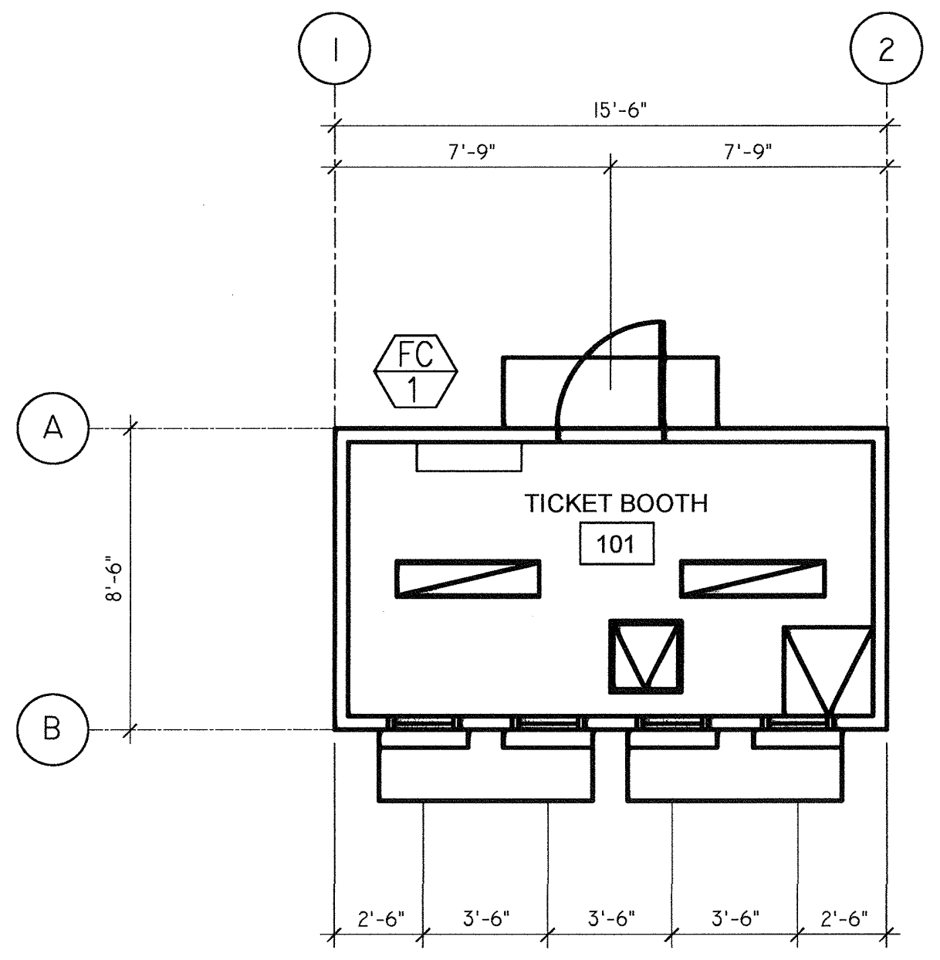
SHEET NUMBER

P-2.01-M1

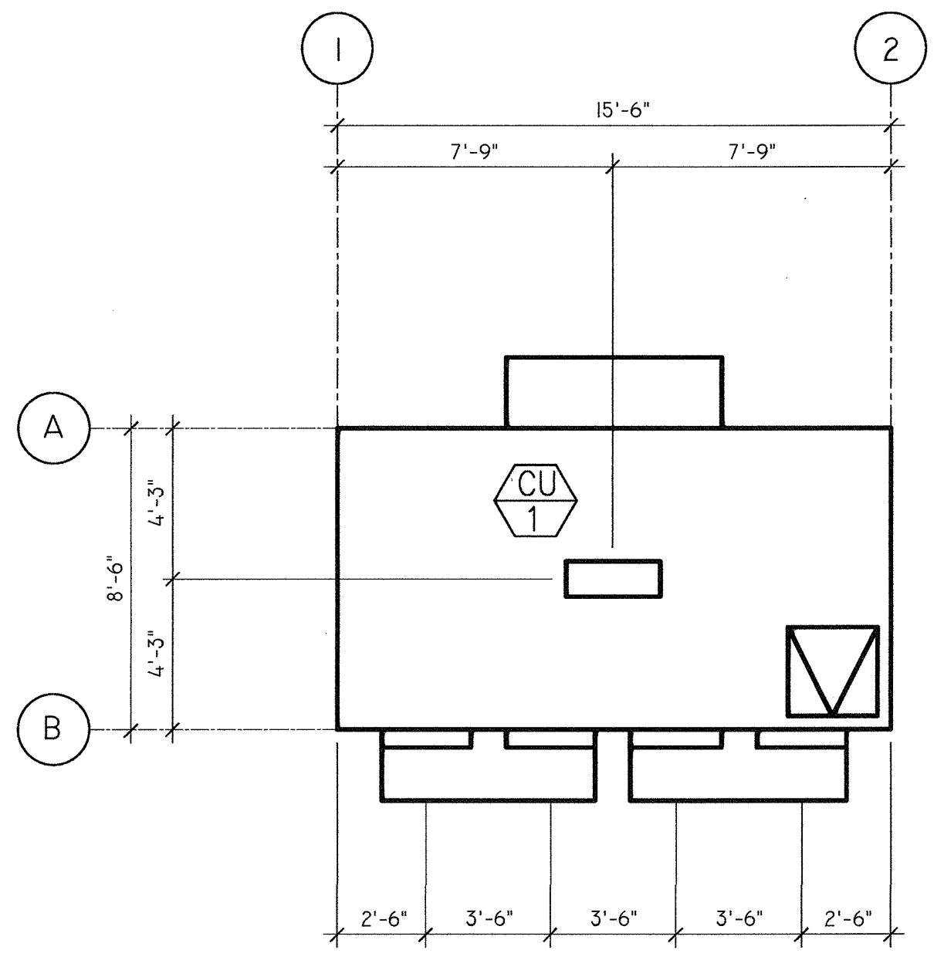
EQUIPMENT & MATERIAL SCHEDULE

FC
1
MITSUBISHI ELECTRIC PKA-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
19,000 BTUH HEATING, HSPF = 9.5
380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=1 AMPS

CU
1
MITSUBISHI ELECTRIC PUZ-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
19,000 BTUH HEATING, HSPF = 9.5
380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=13 AMPS, M.O.C.P.=20 AMPS



CEILING PLAN



ROOF PLAN

AIR CONDITIONING ROOF AND CEILING PLAN VIEW 8'-6" X 15'-6" BUILDING

TYP. OF 1 BUILDING.

SCALE: 1/4" = 1'-0"

1/4:12
ROOF
PITCH

T.P.O.
ROOF

8'-6"
CEILING HT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC / FLS ✓ SS
Date FEB 0 3 2017

C-33467
REN 01-31-2017

LEGEND AND ABBREVIATIONS

———	SUPPLY DUCT	◄─∿─	DIRECTIONAL AIR FLOW
- - - - -	RETURN DUCT	◄─√─	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	◄─∿─ UCD	UNDERCUT DOOR
▧	RETURN REGISTER	Ⓡ	BAROMETRIC RELIEF DAMPER THRU ROOF
⧄	RETURN REGISTER	Ⓣ	THERMOSTAT
⊠	SUPPLY REGISTER	─┼─	DAMPER
◪	EXHAUST FAN	⬡	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
□	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
△	16"x10" HOLE THRU BEAM	CD	CONDENSATE DRAIN
◆━	FIRE DAMPER (12x12 AFD)	G	GAS LOCATION

Hawaiian Air Corporation

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CUSTOMER PLAN APPROVAL

THESE DRAWINGS ILLUSTRATE HOW THE BUILDING WILL BE CONSTRUCTED. THOROUGHLY REVIEW PLANS BEFORE AFFIXING YOUR SIGNATURE IN THE SPACE PROVIDED. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE SPECIFICATIONS (IF ANY) THE PLANS WILL TAKE PRECEDENCE. YOUR SIGNATURE INDICATES ACCEPTANCE OF THIS DESIGN AS ILLUSTRATED.

APPROVED AS NOTED:
- ☐ * NO EXCEPTIONS TAKEN:
- ☐ * APPROVED WITH MODIFICATIONS:
- ☐ * REVISE & RE-SUBMIT:

SIGNATURE:________________

DATE:____________

CHANGES MAY RESULT IN A DELAY TO ORIGINAL SCHEDULE

SILVER CREEK
"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE
PERRIS, CA 92571
PH: 951-943-5393
FAX: 951-940-9232

PROJECT NAME:
EL MONTE BLEACHER PROJECT

SHEET TITLE:
8'-6" X 15'-6" TICKET BOOTH

REVISIONS:

# BY:	DATE:
△1	PT 4/3/16
△	
△	
△	

JOB #: ________

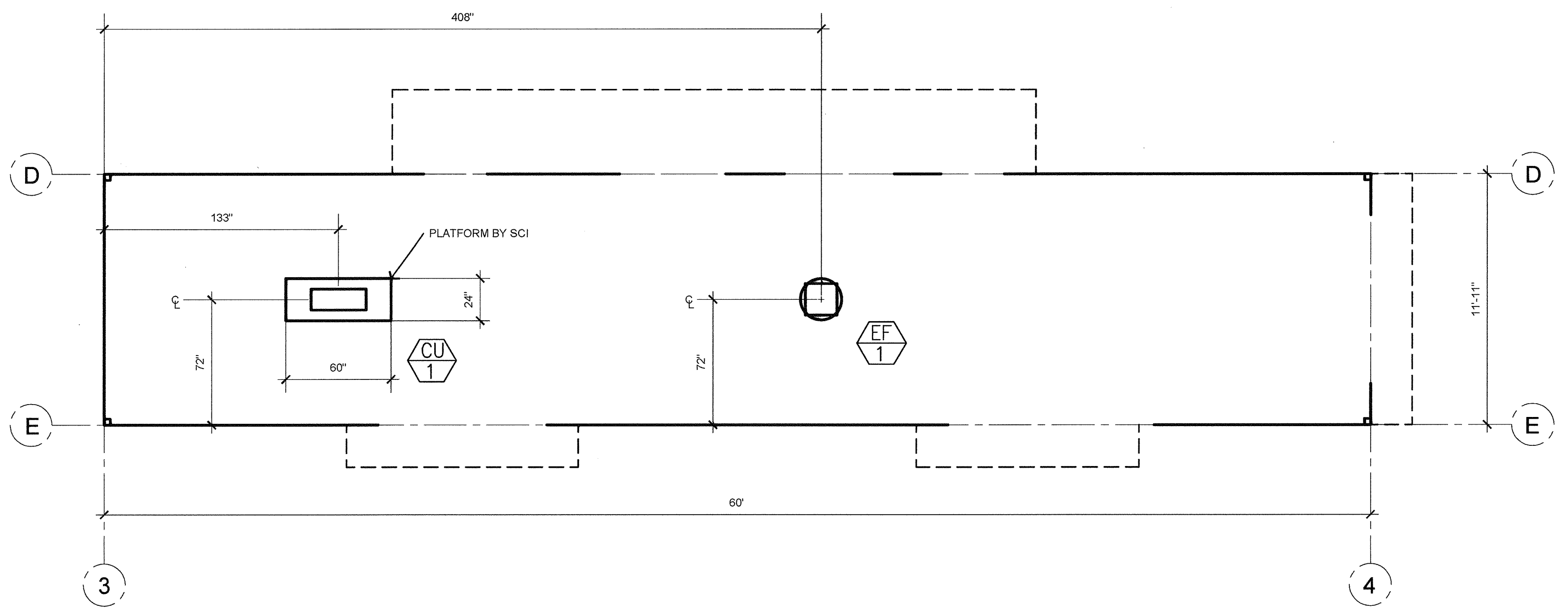
SERIAL #:

QUOTE #:

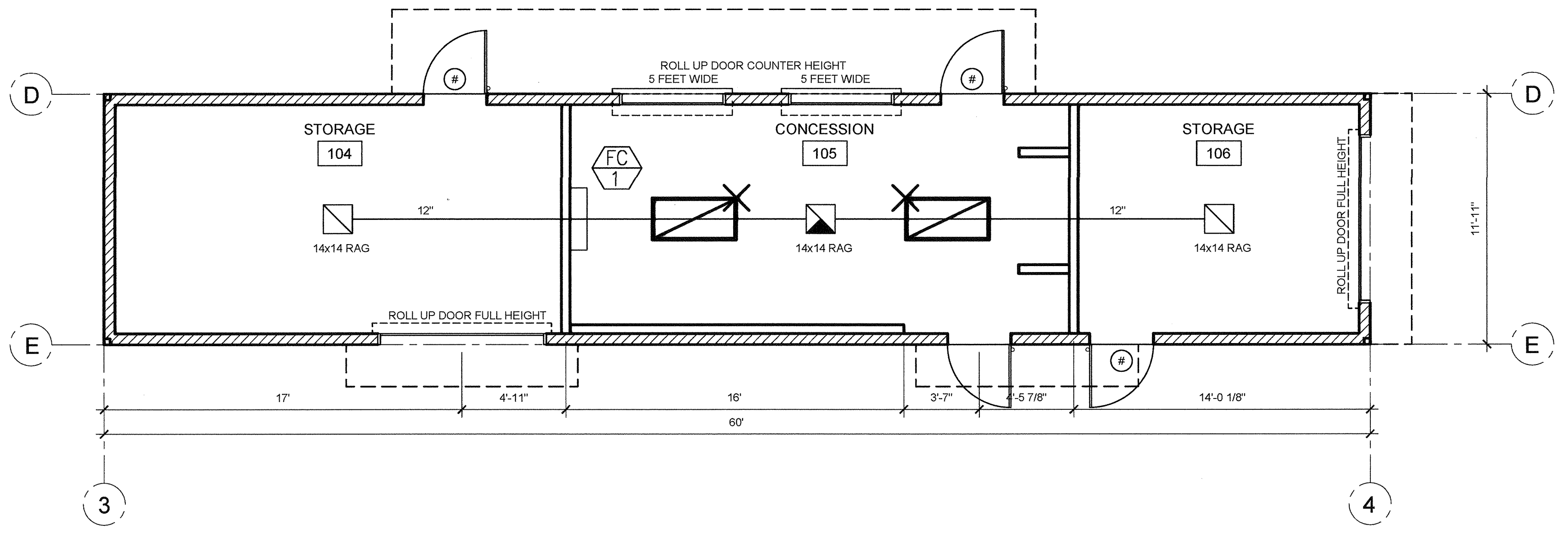
DATE: 4-MAR-2016

DRAWN BY:
HAWAIIAN AIR CORP

SHEET NO.
M-1-M1



SOUTH CONCESSION BUILDING ROOF PLAN



SOUTH CONCESSION BUILDING CEILING PLAN

AIR CONDITIONING ROOF AND CEILING PLAN VIEW 12' X 60' BUILDING

TYP. OF 1 BUILDING.

SCALE: 1/4" = 1'-0"

1/4:12 ROOF PITCH	T.P.O. ROOF	8'-6" CEILING HT.

EQUIPMENT & MATERIAL SCHEDULE

FC 1
MITSUBISHI ELECTRIC PKA-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
19,000 BTUH HEATING, HSPF = 9.5
380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=1 AMPS

CU 1
MITSUBISHI ELECTRIC PUZ-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
19,000 BTUH HEATING, HSPF = 9.5
380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=13 AMPS, M.O.C.P.=20 AMPS

EF 1
COOK ACE-B DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR
ROOF MOUNTED / BELT DRIVE CAT NO. 100C2B
600 CFM @.5 S.P., WT. = 67 LBS.
115V-1PH-60CY, .117 HP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC FLS SS
Date FEB 0 3 2017

C-33467
REN 01-31-2017

LEGEND AND ABBREVIATIONS

─	SUPPLY DUCT	◄─∿─	DIRECTIONAL AIR FLOW
─	RETURN DUCT	◄─√─	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	◄─∿─ UCD	UNDERCUT DOOR
⧄	RETURN REGISTER	Ⓡ	BAROMETRIC RELIEF DAMPER THRU ROOF
⧄	RETURN REGISTER	Ⓣ	THERMOSTAT
⊠	SUPPLY REGISTER	─┼─	DAMPER
◪	EXHAUST FAN	⬡	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
□	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
△	16"x10" HOLE THRU BEAM	CD	CONDENSATE DRAIN
◆─	FIRE DAMPER (12x12 AFD)	G	GAS LOCATION

Hawaiian Air Corporation

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CUSTOMER PLAN APPROVAL

THESE DRAWINGS ILLUSTRATE HOW THE BUILDING WILL BE CONSTRUCTED. THOROUGHLY REVIEW PLANS BEFORE AFFIXING YOUR SIGNATURE IN THE SPACE PROVIDED. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE SPECIFICATIONS (IF ANY) THE PLANS WILL TAKE PRECEDENCE. YOUR SIGNATURE INDICATES ACCEPTANCE OF THIS DESIGN AS ILLUSTRATED.

APPROVED AS NOTED:
- ☐ * NO EXCEPTIONS TAKEN:
- ☐ * APPROVED WITH MODIFICATIONS:
- ☐ * REVISE & RE-SUBMIT:

SIGNATURE:____________

DATE:____________

CHANGES MAY RESULT IN A DELAY TO ORIGINAL SCHEDULE

SILVER CREEK
"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE
PERRIS, CA 92571
PH: 951-943-5393
FAX: 951-940-9232

PROJECT NAME:
EL MONTE BLEACHER PROJECT

SHEET TITLE:
12' X 60' CONCESSSION BUILDING - SOUTH

REVISIONS:

# BY:	*DATE:*
△1	*PT 4/3/16*
△	
△	
△	

JOB #: ____________

SERIAL #:

QUOTE #:

DATE: 4-MAR-2016

DRAWN BY:
HAWAIIAN AIR CORP

SHEET NO.
M-2-M1

EQUIPMENT & MATERIAL SCHEDULE

FC 1
MITSUBISHI ELECTRIC PKA-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
19,000 BTUH HEATING, HSPF = 9.5
380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=1 AMPS

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MITSUBISHI ELECTRIC PUZ-A-18HA4 SERIES MODEL
18,000 BTUH COOLING, SEER = 15.3
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380 CFM @.2" S.P., WT. = 29 LBS.
208/230V-1PH-60CY, MAX. M.C.A.=13 AMPS, M.O.C.P.=20 AMPS

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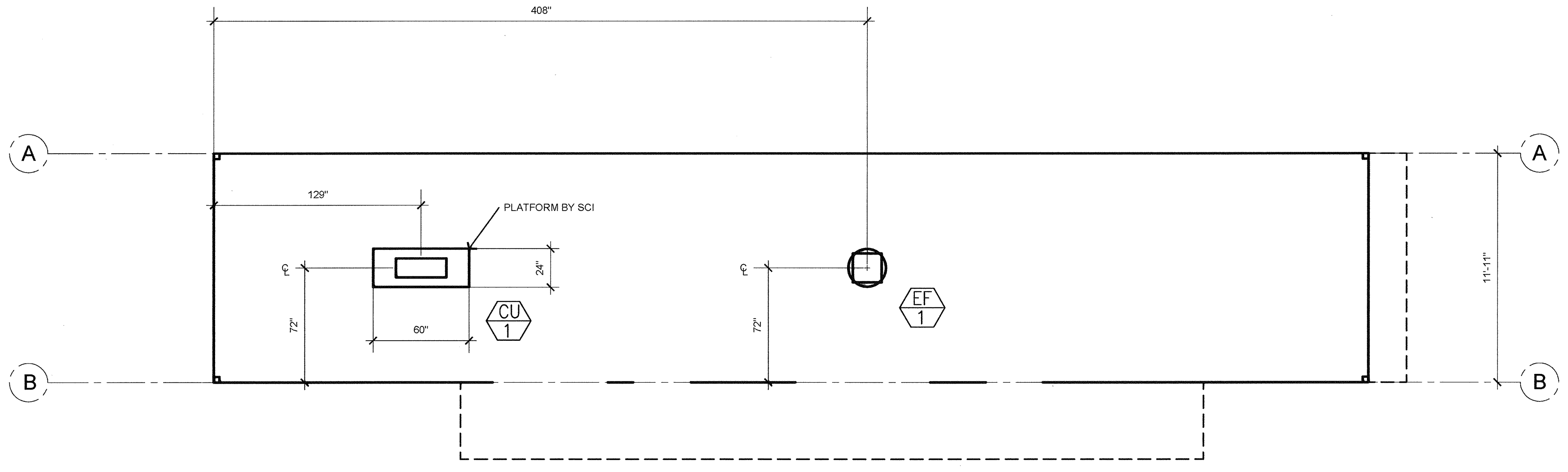
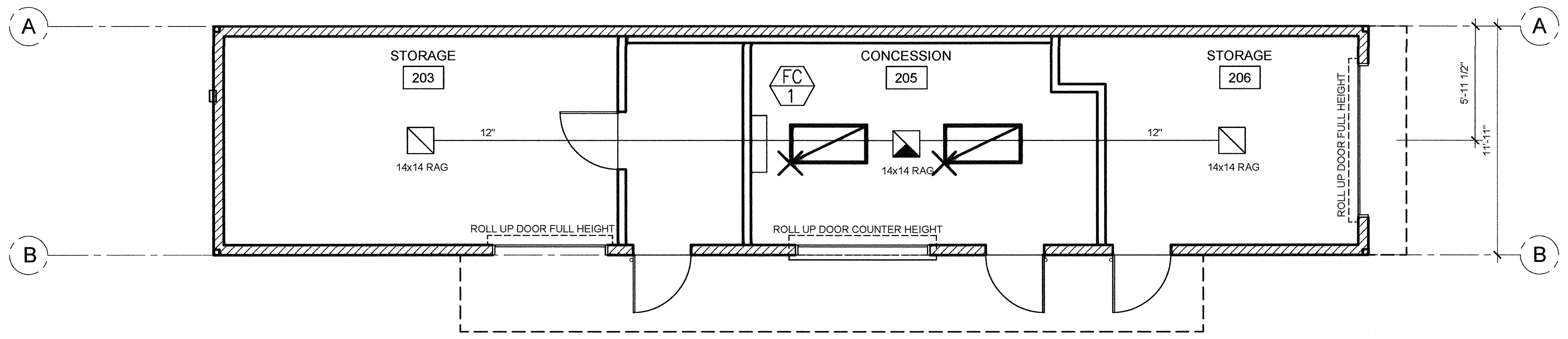
COOK ACE-B DOWNBLAST CENTRIFUGAL EXHAUST VENTILATOR
ROOF MOUNTED / BELT DRIVE CAT NO. 100C2B
600 CFM @.5 S.P., WT. = 67 LBS.
115V-1PH-60CY, MAX. , .117 HP



NORTH CONCESSION BUILDING ROOF PLAN



NORTH CONCESSION BUILDING CEILING PLAN

AIR CONDITIONING ROOF AND CEILING PLAN VIEW 12' X 60' BUILDING

TYP. OF 1 BUILDING.

SCALE: 1/4" = 1'-0"

1/4:12
ROOF
PITCH

T.P.O.
ROOF

8'-6"
CEILING HT.

Hawaiian Air Corporation

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DIV. OF THE STATE ARCHITECT
A 03 117117
AC / FLS ~~X~~ SS G
Date 2/3/2017

C-33467
REN 01-31-2017

LEGEND AND ABBREVIATIONS

——	SUPPLY DUCT	◄—∿—	DIRECTIONAL AIR FLOW
——	RETURN DUCT	◄—╲╱—	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	◄—∿— UCD	UNDERCUT DOOR
⧄	RETURN REGISTER	Ⓡ	BAROMETRIC RELIEF DAMPER THRU ROOF
⧄	RETURN REGISTER	Ⓣ	THERMOSTAT
☒	SUPPLY REGISTER	—┼—	DAMPER
◪	EXHAUST FAN	⬡	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
□	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
△	16"x10" HOLE THRU BEAM	CD	CONDENSATE DRAIN
◆—	FIRE DAMPER (12x12 AFD)	G	GAS LOCATION

CUSTOMER PLAN APPROVAL
THESE DRAWINGS ILLUSTRATE HOW THE BUILDING WILL BE CONSTRUCTED. THOROUGHLY REVIEW PLANS BEFORE AFFIXING YOUR SIGNATURE IN THE SPACE PROVIDED. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE SPECIFICATIONS (IF ANY) THE PLANS WILL TAKE PRECEDENCE. YOUR SIGNATURE INDICATES ACCEPTANCE OF THIS DESIGN AS ILLUSTRATED.
APPROVED AS NOTED:
☐ * NO EXCEPTIONS TAKEN:
☐ * APPROVED WITH MODIFICATIONS:
☐ * REVISE & RE-SUBMIT:

SIGNATURE:_______________

DATE:____________
CHANGES MAY RESULT IN A DELAY TO ORIGINAL SCHEDULE

SILVER CREEK
"BUILDING FOR THE NEXT GENERATION"

2830 BARRETT AVE
PERRIS, CA 92571
PH: 951-943-5393
FAX: 951-940-9232

PROJECT NAME:
EL MONTE BLEACHER PROJECT

SHEET TITLE:
12' X 60' CONCESSION BUILDING - NORTH

REVISIONS:

#	BY: DATE:
△1	PT 4/3/16
△	
△	
△	

JOB #: ________

SERIAL #:

QUOTE #:

DATE: 4-MAR-2016

DRAWN BY:
HAWAIIAN AIR CORP

SHEET NO.
M-3-M1

PANEL: A SERIAL NO:	PHASE: THREE	VOLTS: 120/208	BUSS: 100 AMP	MAIN: NONE	LOCATION: INTERIOR	FEED: 1 1/2" BOTTOM	MOUNTING: RECESSED

OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO OF	WATT PER	OBJECT DESCRIPTION
4 TON A/C	1248	1	x	1248			20	2	#12	1	X			2	#12	1	20	1440				8	180	RECEPTS
4 TON A/C	1248	/	x		1248		/	/	#12	3		X		4	#12	1	20		720			4	180	RECEPTS-GFI
LIGHTS	136	10	x			1360	20	1	#12	5			X	6	#12	1	20			1440		1	1440	RECEPT-DED
6 GAL W/H	1650	1	x	1650			20	1	#12	7	X			8	#12	1	20	1440				1	1440	RECEPT-DED
EE-MAX W/H	3000	1	x		3000		30	1	#10	9		X		10	#12	1	20		1440			1	1440	RECEPT-DED
EX VENTILATOR	3000	1	x			3000	30	1	#10	11			X	12	#12	1	20			1440		1	1440	RECEPT-DED
				0						13	X			14	#12	1	20	1440				1	1440	RECEPT-DED
					0					15		X		16					0					
						0				85			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
	LEG TOTALS			2898	4248	4360												4320	2160	2880	LEG TOTALS			

LCL=2876.5+20866=23742.5

TOTAL WATTS=23742.5 LEG BALANCE = 6.1% TOTAL AMPS: 65.98

PANEL: B SERIAL NO:	PHASE: THREE	VOLTS: 120/208	BUSS: 100 AMP	MAIN: NONE	LOCATION: INTERIOR	FEED: 1 1/2" BOTTOM	MOUNTING: RECESSED

OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO OF	WATT PER	OBJECT DESCRIPTION
LIGHTS/FANS	190	6	x	1140			20	1	#12	1	X			2	#12	1	20	360				2	180	RECEPTS
LIGHTS/FANS	190	7	x		1330		20	1	#12	3		X		4					0					
						0				5			X	6						0				
				0						7	X			8				0						
					0					9		X		10					0					
						0				11			X	12						0				
	LEG TOTALS			1140	1330	0												360	0	0	LEG TOTALS			

LCL=617.5+2830=3447.5

TOTAL WATTS=3447.5 LEG BALANCE = 100.0% TOTAL AMPS: 9.58

PANEL: C SERIAL NO:	PHASE: THREE	VOLTS: 120/208	BUSS: 100 AMP	MAIN: NONE	LOCATION: INTERIOR	FEED: 1 1/2" BOTTOM	MOUNTING: RECESSED

OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO OF	WATT PER	OBJECT DESCRIPTION
6 GAL W/H	1650	1	x	1650			20	1	#12	1	X			2	#12	1	20	360				2	180	RECEPTS
EX FANS	300	2	x		600		20	1	#12	3		X		4					0					
LIGHTS	136	7	x			952	20	1	#12	5			X	6						0				
				0						7	X			8				0						
					0					9		X		10					0					
						0				11			X	12						0				
	LEG TOTALS			1650	600	952												360	0	0	LEG TOTALS			

LCL=800.5+3562=4362.5

TOTAL WATTS=4362.5 LEG BALANCE = 54.0% TOTAL AMPS: 12.12

PANEL: D SERIAL NO:	PHASE: THREE	VOLTS: 120/208	BUSS: 100 AMP	MAIN: NONE	LOCATION: INTERIOR	FEED: 1 1/2" BOTTOM	MOUNTING: RECESSED

OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO OF	WATT PER	OBJECT DESCRIPTION
EX FANS	300	2	x	600			20	1	#12	1	X			2	#12	1	20	360				2	180	RECEPTS
FANS	136	6	x		816		20	1	#12	3		X		4					0					
						0				5			X	6						0				
				0						7	X			8				0						
					0					9		X		10					0					
						0				11			X	12						0				
	LEG TOTALS			600	816	0												360	0	0	LEG TOTALS			

LCL=354+1776=2130

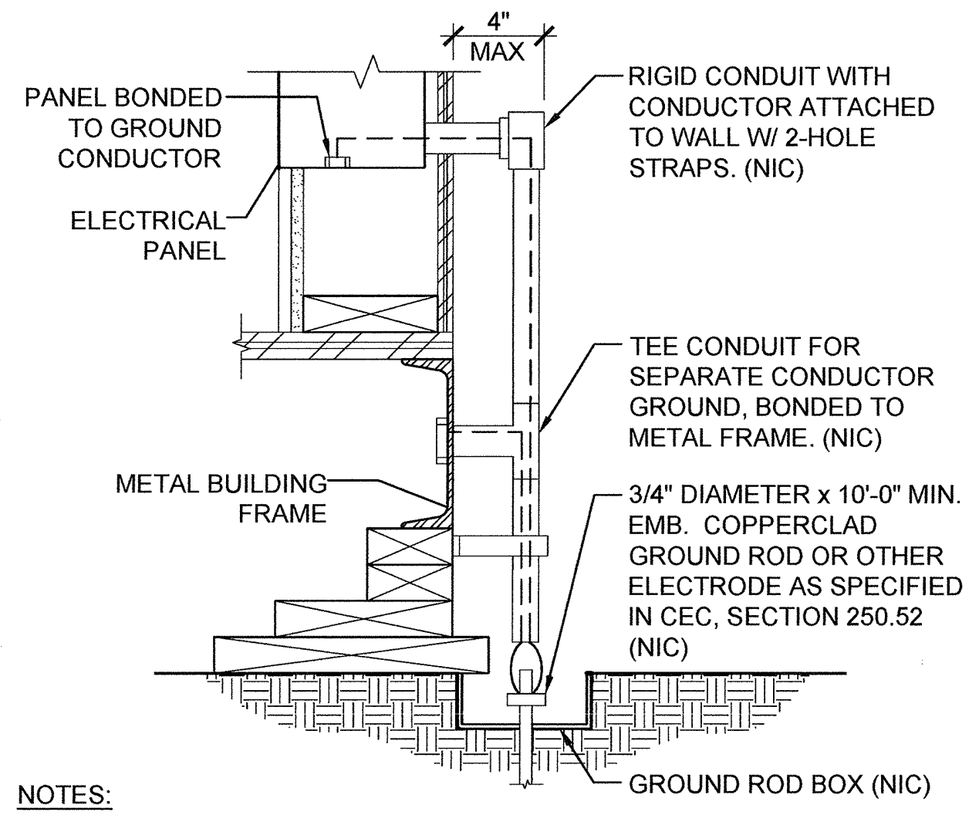
TOTAL WATTS=2130 LEG BALANCE = 100.0% TOTAL AMPS: 5.92

PANEL: E SERIAL NO:	PHASE: THREE	VOLTS: 120/208	BUSS: 100 AMP	MAIN: NONE	LOCATION: INTERIOR	FEED: 1 1/2" BOTTOM	MOUNTING: RECESSED

OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	WATTS B	WATTS C	BRK	POLE	WIRE SIZE	CKT NO	LEGS A	LEGS B	LEGS C	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	WATTS C	LCL	NO OF	WATT PER	OBJECT DESCRIPTION
4 TON A/C	1248	1	x	1248			20	2	#12	1	X			2	#12	1	20	1440				8	180	RECEPTS
4 TON A/C	1248	/	x		1248		/	/	#12	3		X		4	#12	1	20		720			4	180	RECEPTS-GFI
LIGHTS	136	10	x			1360	20	1	#12	5			X	6	#12	1	20			1440		1	1440	RECEPT-DED
EE-MAX W/H	3000	1		3000			30	1	10	7	X			8	#12	1	20	1440				1	1440	RECEPT-DED
EX VENTILATOR	3000	1	x		3000		30	1	#10	9		X		10	#12	1	20		1440			1	1440	RECEPT-DED
						0				11			X	12	#12	1	20			1440		1	1440	RECEPT-DED
				0						13	X			14	#12	1	20	1440				1	1440	RECEPT-DED
					0					15		X		16					0					
						0				85			X	18						0				
				0						19	X			20				0						
					0					21		X		22					0					
						0				23			X	24						0				
	LEG TOTALS			4248	4248	1360												4320	2160	2880	LEG TOTALS			

LCL=1714+19216=20930

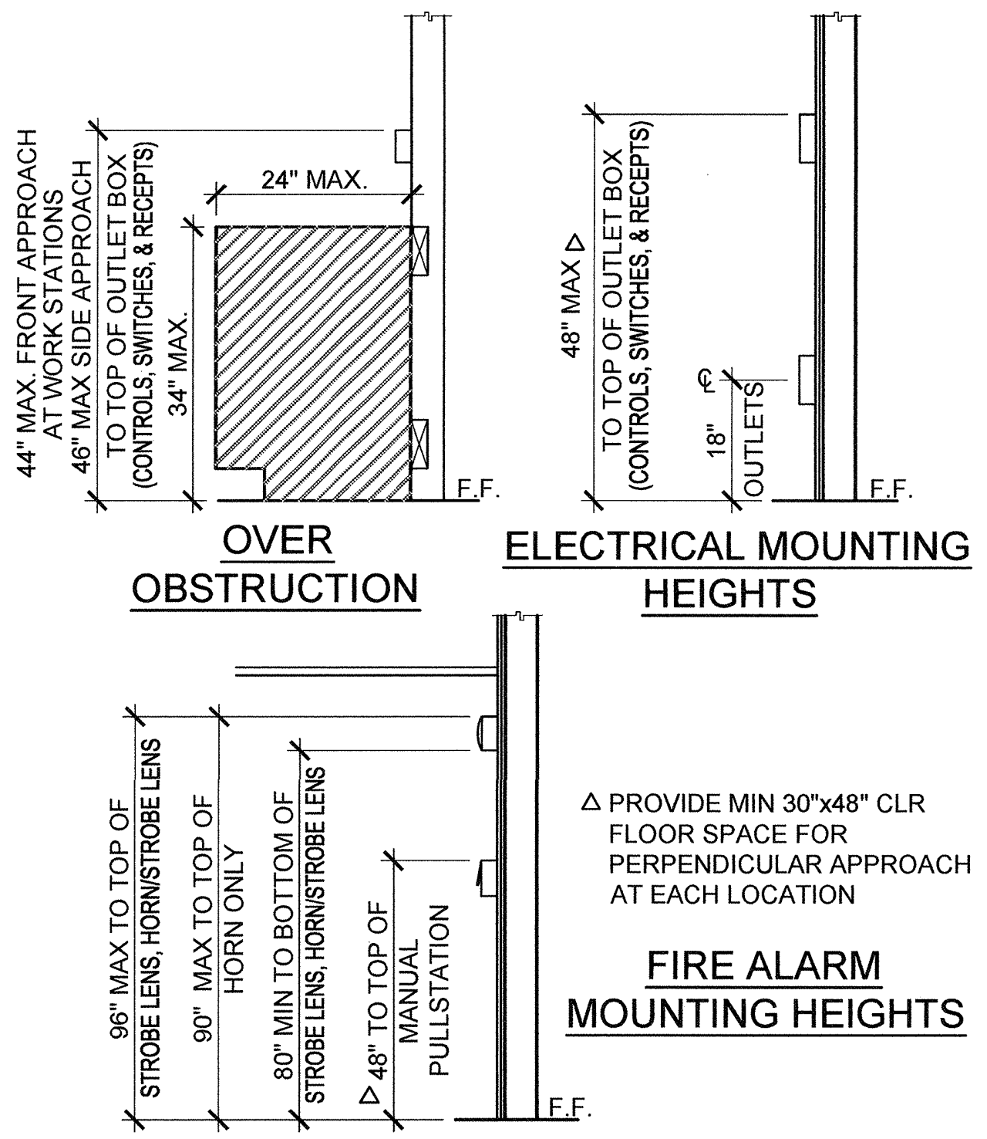
TOTAL WATTS=20930 LEG BALANCE = 33.8% TOTAL AMPS: 58.16


4" MAX
PANEL BONDED TO GROUND CONDUCTOR
ELECTRICAL PANEL
METAL BUILDING FRAME
RIGID CONDUIT WITH CONDUCTOR ATTACHED TO WALL W/ 2-HOLE STRAPS. (NIC)
TEE CONDUIT FOR SEPARATE CONDUCTOR GROUND, BONDED TO METAL FRAME. (NIC)
3/4" DIAMETER x 10'-0" MIN. EMB. COPPERCLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CEC, SECTION 250.52 (NIC)
GROUND ROD BOX (NIC)

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

TYPICAL GROUNDING DETAIL 1


44" MAX. FRONT APPROACH AT WORK STATIONS
46" MAX SIDE APPROACH
TO TOP OF OUTLET BOX (CONTROLS, SWITCHES, & RECEPTS)
34" MAX.
24" MAX.
F.F.
48" MAX △
TO TOP OF OUTLET BOX (CONTROLS, SWITCHES, & RECEPTS)
18"
OUTLETS
F.F.
96" MAX TO TOP OF STROBE LENS, HORN/STROBE LENS
90" MAX TO TOP OF HORN ONLY
80" MIN TO BOTTOM OF STROBE LENS, HORN/STROBE LENS
△ 48" TO TOP OF MANUAL PULLSTATION
F.F.

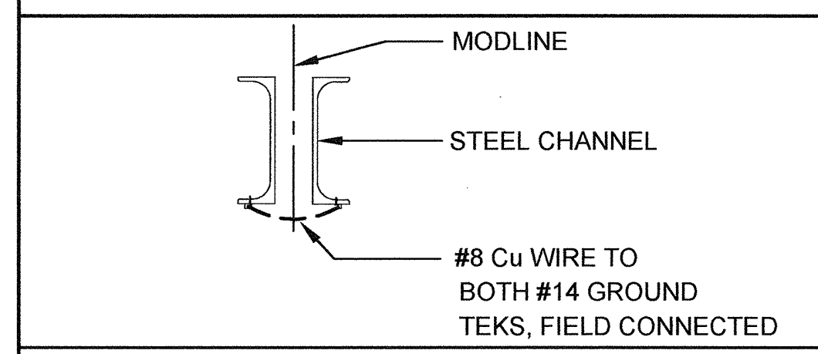
OVER OBSTRUCTION

ELECTRICAL MOUNTING HEIGHTS

△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

FIRE ALARM MOUNTING HEIGHTS

ACCESSIBLE HEIGHTS 2



GROUND JUMPER AT MODLINE 3

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72, 10.6.5.2.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4" x 4" SQ	18.0	8	7	6	0
4S	1 1/2" x 4" SQ	21.0	9	8	7	0
4SD	2 1/8" x 4" SQ	30.3	13	12	10	6
4SX	2 7/8" x 4" SQ	43.5	23	21	17	10
5SD	2 1/8" x 4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8" x 4-11/16" SQ	86.0	38	34	28	17
664	4" x 6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

⧄	2x4 LED CEILING LIGHT WITH 0 - 10 VOLT DIMMING CAPABILITY
■	ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT
(OS)	CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.
(PC)	CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500
(US)	ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
WS-1	SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
RC	LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPER # LMRC-2XX
$ D	SINGLE BUTTON DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101
$	LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
$ 3	3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
⦶	DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
◐ WP	EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
◐ GFI	GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
◐ ROOF	ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
EM	EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL . MOUNT AT +93" AFF
EXIT	EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
◩	4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
○	4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
▽ H	4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
⬚	RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
(S)	4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
(H)	4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
(WH)	4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
FS	DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
TS	DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
(B)	DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.
⊖ ICE CREAM	DEDICATED CIRCUIT FOR FUTURE ICE CREAM MAKER BY OTHERS (NEMA 5-15P PLUG)
⊖ SODA	DEDICATED CIRCUIT FOR FUTURE SOLID DOOR REFRIGERATOR BY OTHERS (NEMA 5-15P PLUG)
⊖ WARMER	DEDICATED CIRCUIT FOR FUTURE FOOD WARMER BY OTHERS (NEMA 5-15P PLUG)
⊖ REFER	DEDICATED CIRCUIT FOR FUTURE REFRIGERATOR BY OTHERS (NEMA 5-15P PLUG)
⊖ ICE	DEDICATED CIRCUIT FOR FUTURE ICE MAKER BY OTHERS (NEMA 5-15P PLUG)
◯	DEDICATED CIRCUIT FOR DOWNBLAST EXHAUST VENTILATOR
◁ TV	4S J-BOX w/ 3/4" CONDUIT TO ATTIC SPACE, PULL STRING & SINGLE MUD RING MOUNTED @ 62" AFF FOR FUTURE TV
○◁ SECURITY	4S J-BOX w/ 3/4" CONDUIT TO ATTIC SPACE, PULL STRING & SINGLE MUD RING MOUNTED @ 18" AFF FOR FUTURE SECURITY SYSTEM
◀ PA	4S J-BOX w/ 3/4" CONDUIT TO ATTIC SPACE, PULL STRING & SINGLE MUD RING MOUNTED @ 18" AFF FOR FUTURE PA
◁ PHONE	4S J-BOX w/ 3/4" CONDUIT TO ATTIC SPACE, PULL STRING & SINGLE MUD RING MOUNTED @ 18" AFF FOR FUTURE PHONE
WIFI	CEILING MOUNTED 4S J-BOX w/ 3/4" CONDUIT TO ATTIC SPACE & SINGLE MUD RING FOR FUTURE WIFI DEVICE

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:
EL MONTE UNIFIED SCHOOL DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:
ELECTRICAL NOTES
AND SCHEDULES

JACK F. SHIVELY III
C-33467
REN 01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

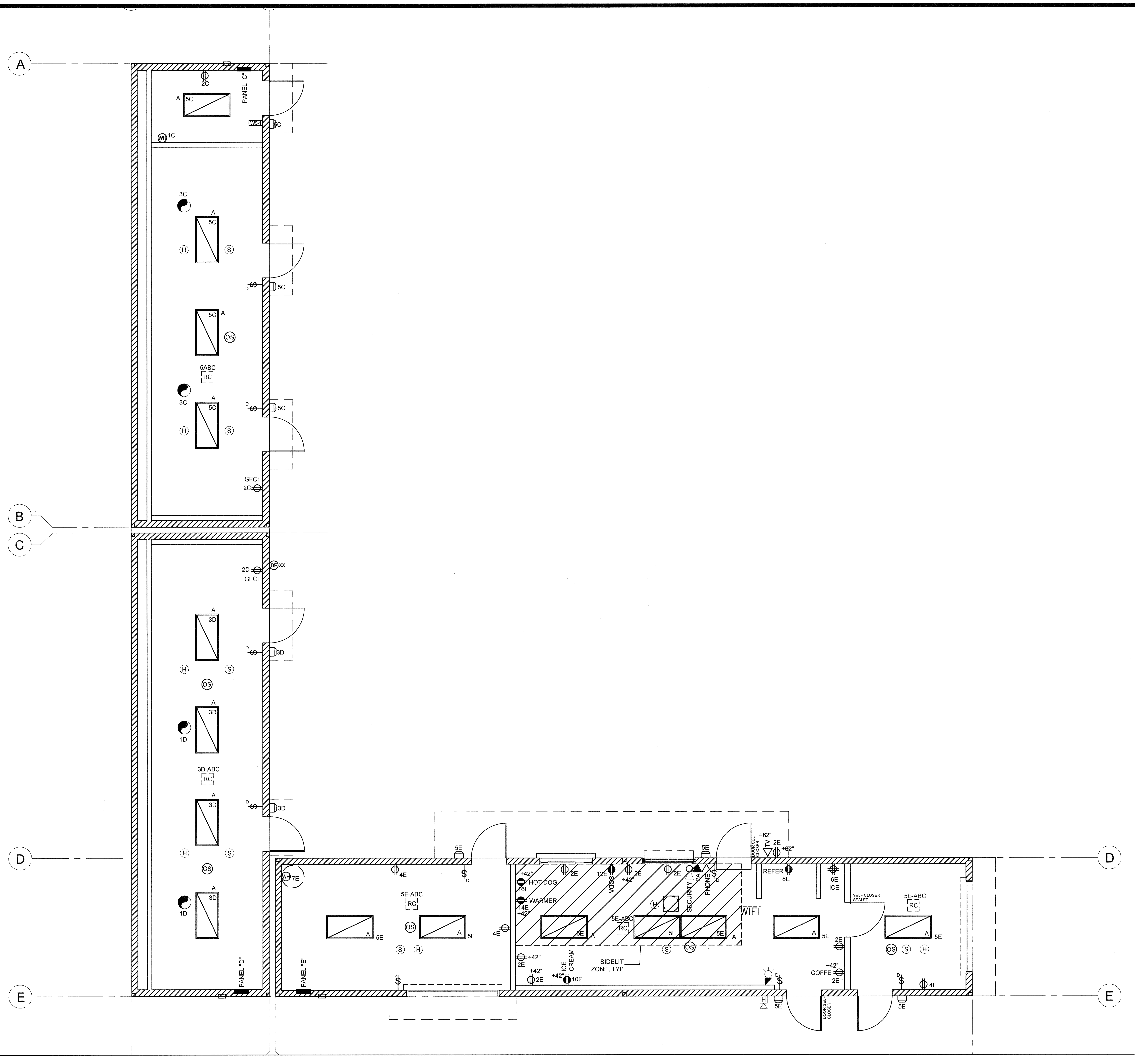
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS ~~[illegible]~~ SS
Date 2/3/2017

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER
E-0.1-M1



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

4

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SILVER CREEK INDUSTRIES, INC.

SILVER
CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

EL MONTE UNIFIED SCHOOL
DISTRICT
EL MONTE CA
SCI PROJECT NO. 10644

SHEET TITLE:

ELECTRICAL PLAN

C-33467
REN.01-31-2017

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC / FLS SS
Date 2/13/2017

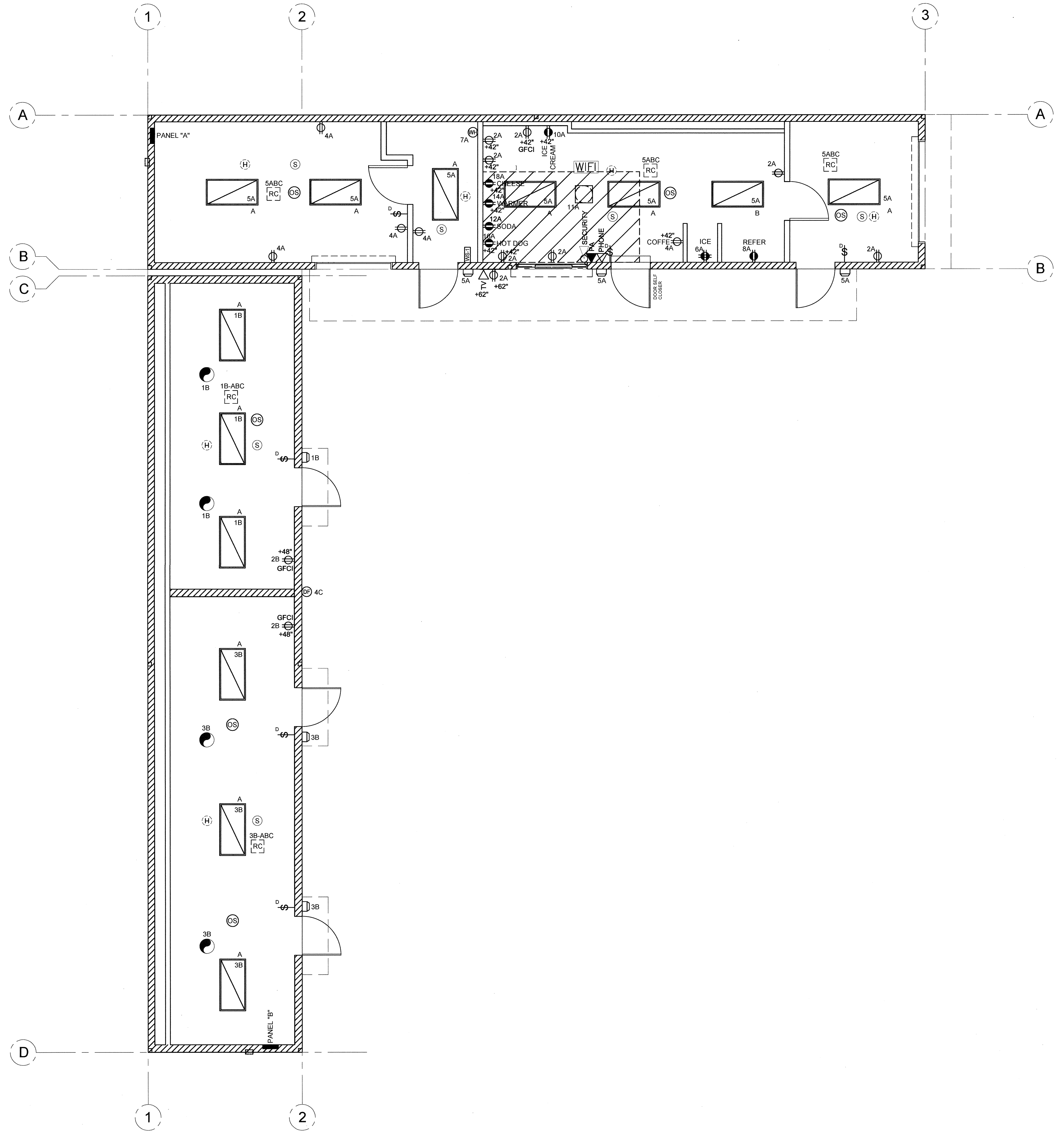
REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES

PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

SHEET NUMBER

E-1.01-M1



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

1

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Date 2/3/2017

REVISIONS

1	
2	
3	
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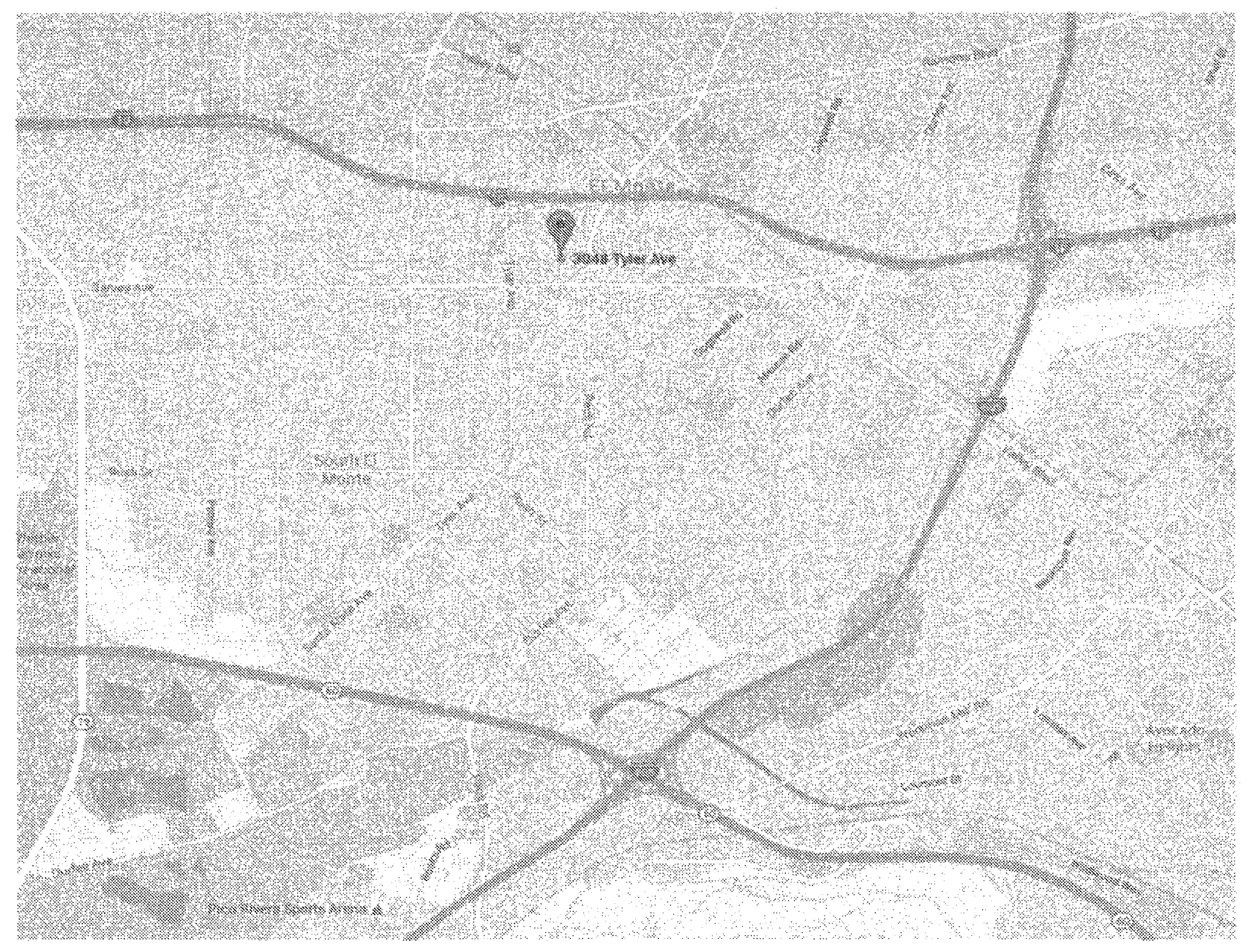
SILVER CREEK INDUSTRIES

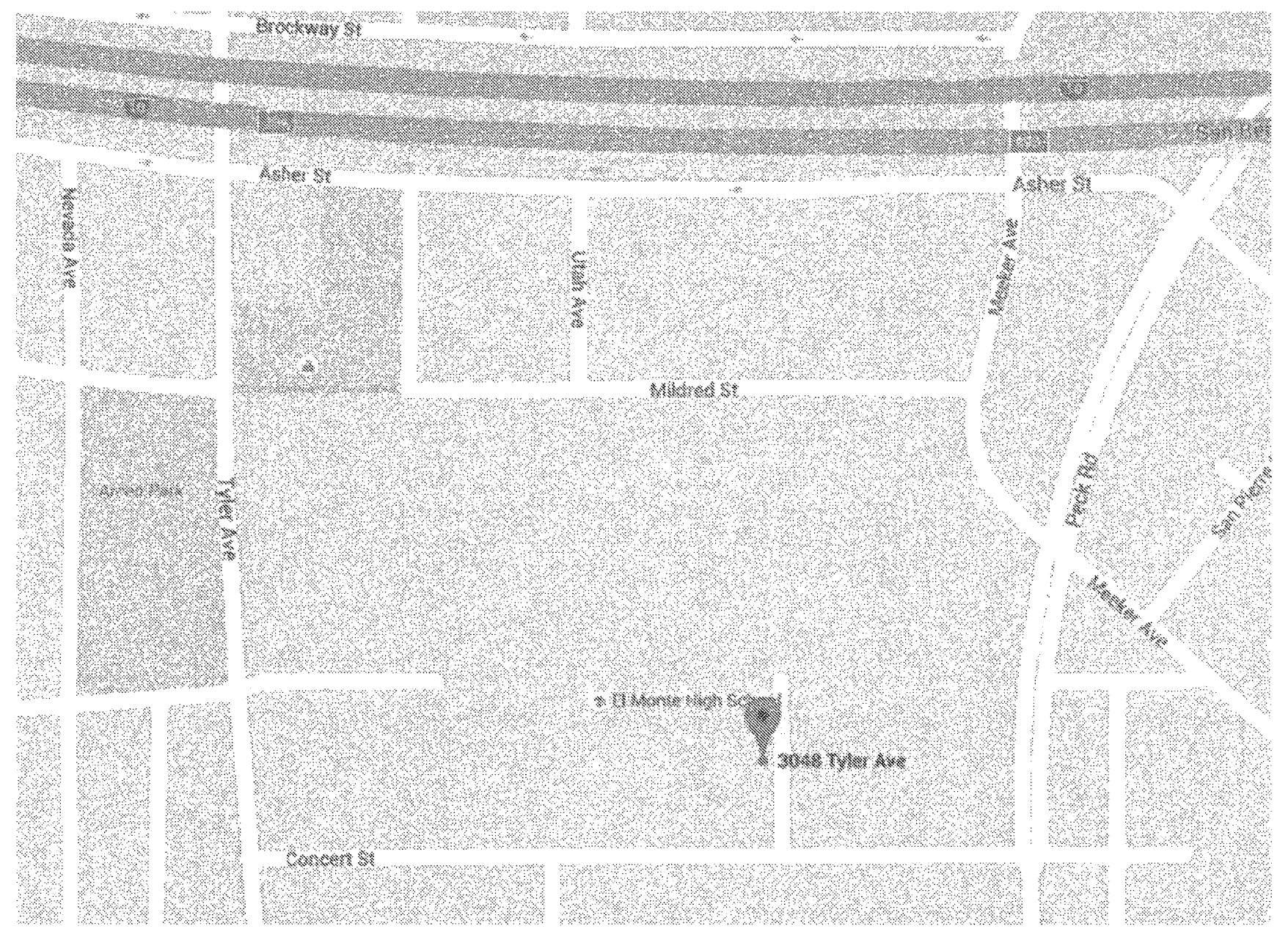
PROJECT NO:	10644
DRAWN BY:	FIL C.
SCALE:	AS NOTED
DATE:	02-18-2016

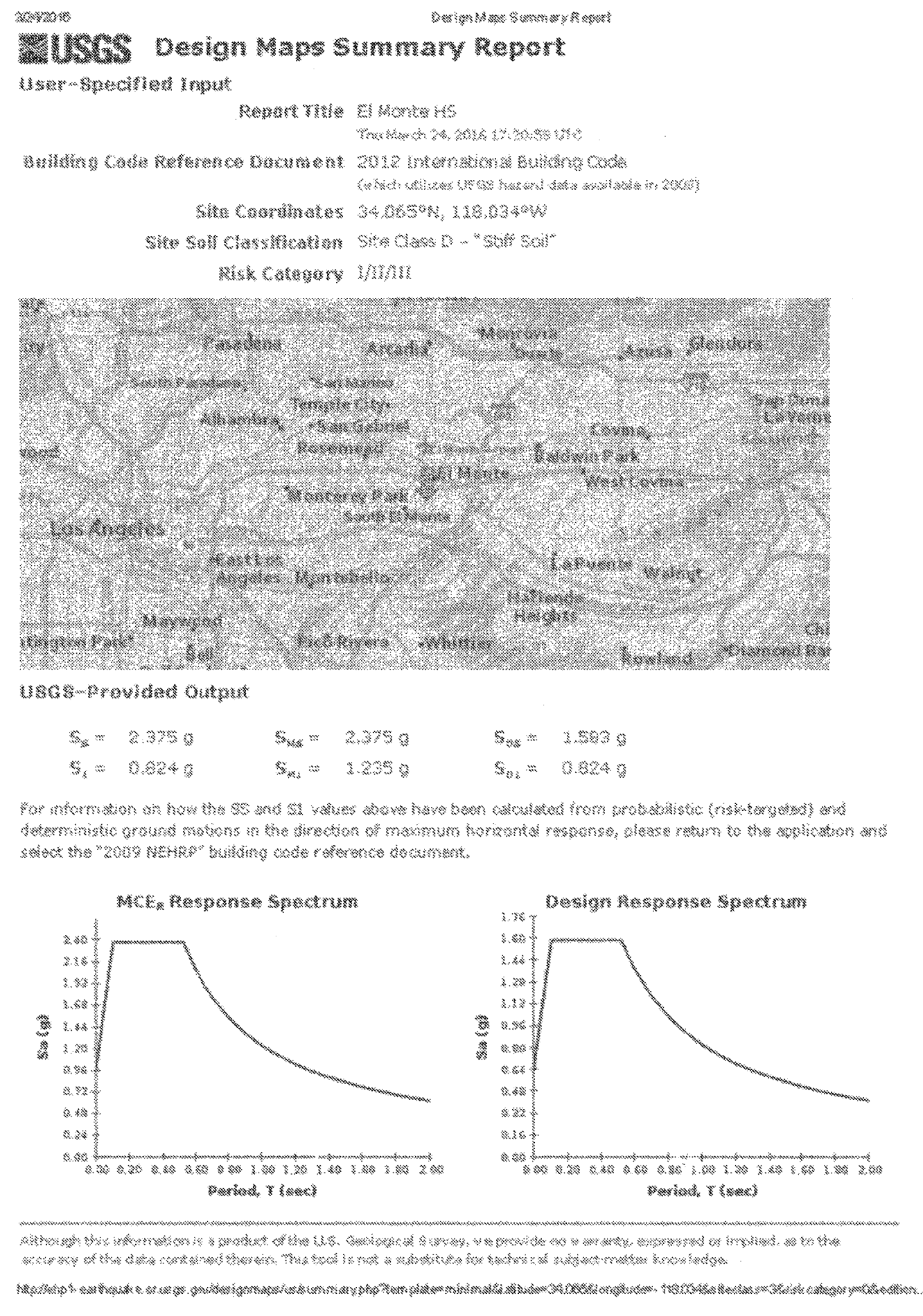
SHEET NUMBER

E-1.02-M1

El Monte High School
Concession Stand







3/24/2016 Design Maps Summary Report

USGS Design Maps Summary Report

User-Specified Input

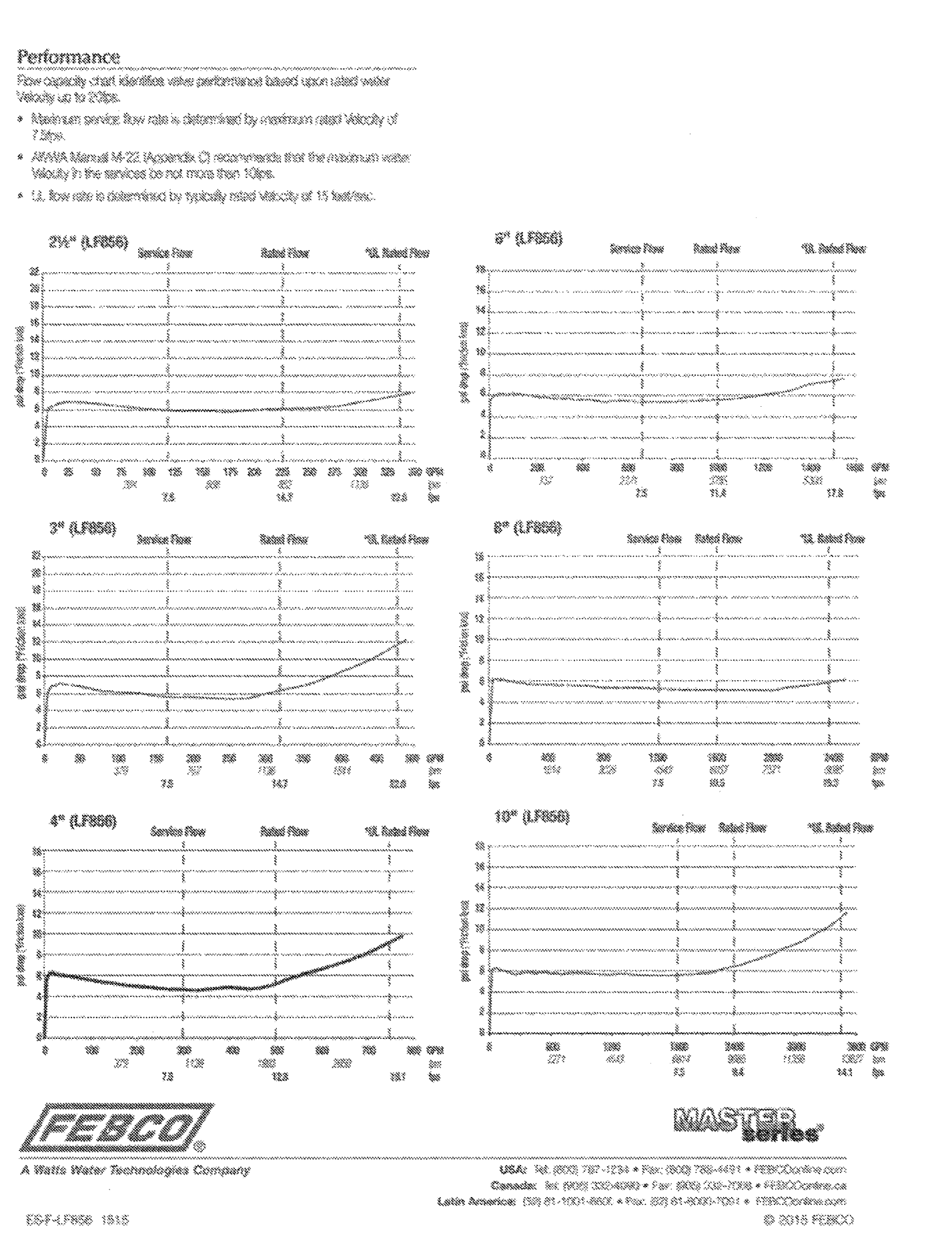
Report Title	El Monte HS Thu March 24, 2016 17:20:59 UTC
Building Code Reference Document	2012 International Building Code (which utilizes USGS hazard data available in 2008)
Site Coordinates	34.065°N, 118.034°W
Site Soil Classification	Site Class D – "Stiff Soil"
Risk Category	I/II/III

USGS-Provided Output

S_S = 2.375 g S_{MS} = 2.375 g S_{DS} = 1.583 g
S_1 = 0.824 g S_{M1} = 1.235 g S_{D1} = 0.824 g

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.

Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.



Performance

Flow capacity chart identifies valve performance based upon rated water Velocity up to 20fps.

- Maximum service flow rate is determined by maximum rated Velocity of 7.5fps.
- AWWA Manual M-22 (Appendix C) recommends that the maximum water Velocity in the services be not more than 10fps.
- UL flow rate is determined by typically rated Velocity of 15 feet/sec.

ES-F-LF856 1515

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COUNTY OF LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION DIVISION

FORM 196
Rev. 04/03

Fire Prevention Engineering
5823 Rickenbacker Road
Commerce, CA 90040
Telephone (323) 890-4125 Fax (323) 890-4129

Information on Fire Flow Availability for Building Permit

For All Buildings Other Than Single Family Dwellings (R-3)

INSTRUCTIONS:

Complete parts I, II (A) when:
Verifying fire flow, fire hydrant location and fire hydrant size.

Complete parts I, II (A), & II (B) when:
For buildings equipped with fire sprinkler systems, and/or private on-site fire hydrants.

PROJECT INFORMATION
(To Be Completed By Applicant)

PART I

Building Address: 3048 TYLER AVE.
City or Area: EL MONTE
Nearest Cross Street: CONCERT ST.
Distance of Nearest Cross Street:
Applicant: ARMANDO ORTEGA Telephone: (951) 830-7197
Address: 1003 N. DURFEE AVE.
City: S. EL MONTE
Occupancy (Use of Building): VARIES Sprinklered: Yes ☒ No ☐
Type of Construction: VARIES
Square Footage: VARIES Number of Stories: VARIES
Present Zoning: SCHOOL

Applicant's Signature
Date 1/21/16

PART II-A **INFORMATION ON FIRE FLOW AVAILABILITY**
(To be completed by Water Purveyor)

LACoFD 1/21/16
INSpector 3414
Angel Gutierrez
562 696-3915

Location North side of Building 6
Hydrant Number
Distance from Nearest Property Line 300' Size of Hydrant 6" Size of Water main
Static PSI 60 psi Residual PSI 45 psi Orifice size 2.5" Pitot 35 psi
Fire Flow at 20 PSI 1680 Duration 2 min Flow Test Date / Time 1/21/16 9:10am

Location Mildred St and Medler Ave
Hydrant Number
Distance from Nearest Property Line on street Size of Hydrant 6" Size of Water main
Static PSI 60 psi Residual PSI 40 psi Orifice size 2.5" Pitot 32 psi
Fire Flow at 20 PSI 1380 Duration 2 min Flow Test Date / Time 1/21/16 9:20am

Location
Hydrant Number
Distance from Nearest Property Line Size of Hydrant Size of Water main
Static PSI Residual PSI Orifice size Pitot
Fire Flow at 20 PSI Duration Flow Test Date / Time

PART II-B **SPRINKLERED BUILDINGS/PRIVATE FIRE HYDRANTS ONLY**

Detector Location (check one) ☐ Above Grade ☐ Below Grade ☐ Either
Backflow Protection Required (Fire Sprinklers/Private Hydrant) (check one) ☐ Yes ☐ No
Minimum Type of Protection Required (check one) ☐ Single Check Detector Assembly
☐ Double Check Detector Assembly ☐ Reduced Pressure Principle Detector Assembly

Water Purveyor
Signature
Date
Title

This Information is Considered Valid for Twelve Months

Fire Department approval of building plans shall be required prior to the issuance of a Building Permit by the jurisdictional Building Department. Any deficiencies in water systems will need to be resolved by the Fire Prevention Division only prior to this department's approval of building plans.

Fire Protection Scope of Work

Install new Automatic Fire Sprinkler System per NFPA 13 2013 Edition and CFC 2013 edition
Work to begin 6" above Finished Floor.
All work to be performed by C-16 contractor.
Fire Sprinkler System in Classroom units to be installed off site in Modular Factory
Final connection to fire service underground an tie-ins to be performed on building site.
All testing of Sprinkler System to be performed on building site.
Fire Service Main, FDC and Back Flow preventer provided by others
Fire Alarm System provided by others

Project Design Data:

Occupancy Type:	B
Construction Type:	VB
Hazard:	Light
Building Height:	10'-2
Building Area:	1680 SQ. FT.

Sheet Index

SHEET	DESCRIPTION
FS 1	Cover Sheet/Project Data
FS 2	Fire Sprinkler Plans
FS 3	Details
FS 4	Site Utility

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS SS
Date 2/3/2017

SILVER CREEK
Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITEC STAMP:
JACK F. SHIVELY III
C-33467
JAN 31 2017

ENGINEER STAMP:
LAL B. SAHGAL
NO. 26885
EXP. 9-30-16

CONSULTANT:
So Cal Fire Inc.
14102 Holt Avenue
North Tustin, CA 92705
714 368 0230
C-16 # 898658

CONSULTANT STAMP:
Classification C-16
License No. 898658

PROJECT NAME:
El Monte HS Ticket Booth
3048 Tyler Ave.
El Monte, CA 91731

01/26/17

ISSUE DATES:

DESCRIPTION:	DATE:
Cover	

PROJECT NO: 11111111

DRAWN BY: Kris Michel
CHECKED BY:

11111111

SHEET TITLE:
Project Data

SHEET NUMBER:
FS 1

Riser Tag

Design Basis	
Occupancy:	Light Hazard
Total Sprinklers:	26
Number Of Sprinklers Calculated:	8
K-Factor:	5.6
Orifice Size:	0
Design Density:	0.100gpm/ft²
Average Density:	0.165gpm/ft²
Area of Application:	900.00ft² (Actual 959.29ft²)
Demand at Base Of Riser or Point Of Connection	
Total Demand Flow(gpm):	158.14
Pressure(psi):	39.522
Water Supply Information At Time Of Design	
Static Pressure(psi):	60.000
Residual Pressure(psi):	40.000
Supply Flow(gpm):	1680.00
Total Demand Flow(gpm):	258.14
Total Demand Pressure(psi):	48.796

GENERAL OVERHEAD NOTES

All design and installation shall be in accordance with NFPA 13, 2013 Edition and local authority.

System is designed for Light Hazard occupancy @ 0.10 gpm/sq. ft. over the hydraulically most remote 900 sq. ft. including 100gpm outside hose stream allowance.). Above ceiling heads are spaced @ maximum 168 sq. ft. due to the structure being in the category of "combustible obstruction" with joists spaced more than 3"-0" apart per NFPA 13. Table 8.6.2.2.1(a). Below ceiling sprinklers are @ maximum 225 sq. ft. spacing.

All pipe 1"-1½" to be Sch 30 Dyna-Thread and 175 lb. WWP cast iron fittings (ANSI-B16.9). (Sch 40 used in Hydraulic Calculations.)

All pipe 2" and larger to be schedule 10 Dyna Flow with grooved coupling, and style #750 reducing coupling.

Propriety and central station monitoring to be provided by others.

All wiring to be provided by others.

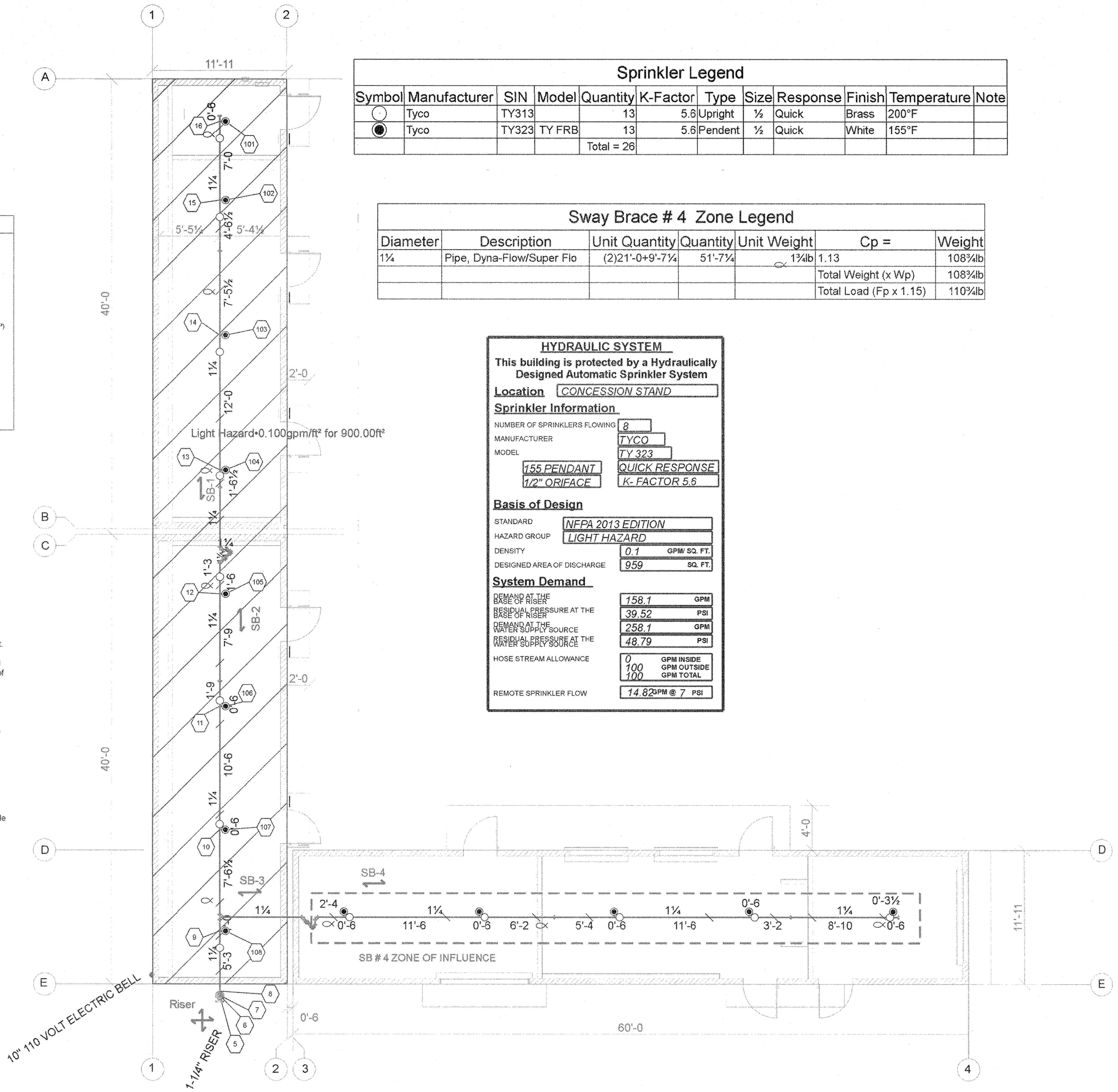
Install earthquake bracing as shown per NFPA 13 using 1" schedule 40 piping to support all earthquake braces.

The length of an unsupported arm over to a sprinkler shall not exceed 12".

All new systems including yard shall be hydraulically tested at not less than 200 psi (13.8 bars) pressure for two hours, or at 50 psi (3.4 bars) in excess of the maximum pressure, when maximum pressure is in excess of 150 psi.

Install surge protection at end of all branch lines.

Attach splay wire to ends of branch lines. Splay wires not required where hangers are less than 6" from point of attachment to top of pipe. NFPA13 9.3.6.5



Scale 3/16"= 1'

0 1 2 4 8 12 16

Sprinkler Legend

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
○	Tyco	TY313		13	5.6	Upright	½	Quick	Brass	200°F	
●	Tyco	TY323	TY FRB	13	5.6	Pendent	½	Quick	White	155°F	
				Total = 26							

Sway Brace # 4 Zone Legend

Diameter	Description	Unit Quantity	Quantity	Unit Weight	Cp =	Weight
1¼	Pipe, Dyna-Flow/Super Flo	(2)21'-0+9'-7¼	51'-7¼	1¾lb	1.13	108¾lb
					Total Weight (x Wp)	108¾lb
					Total Load (Fp x 1.15)	110¾lb

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location CONCESSION STAND

Sprinkler Information

NUMBER OF SPRINKLERS FLOWING 8
MANUFACTURER TYCO
MODEL TY 323
155 PENDANT QUICK RESPONSE
1/2" ORIFACE K- FACTOR 5.6

Basis of Design

STANDARD NFPA 2013 EDITION
HAZARD GROUP LIGHT HAZARD
DENSITY 0.1 GPM/ SQ. FT.
DESIGNED AREA OF DISCHARGE 959 SQ. FT.

System Demand

DEMAND AT THE BASE OF RISER 158.1 GPM
RESIDUAL PRESSURE AT THE BASE OF RISER 39.52 PSI
DEMAND AT THE WATER SUPPLY SOURCE 258.1 GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE 48.79 PSI
HOSE STREAM ALLOWANCE 0 GPM INSIDE
100 GPM OUTSIDE
100 GPM TOTAL
REMOTE SPRINKLER FLOW 14.82GPM @ 7 PSI

SILVER CREEK
Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITEC STAMP:
JACK F. SHIVELY III
C-33487
JAN 31 2017
RENEWAL DATE

ENGINEER STAMP:
LAL B. SAHGAL
NO. 26885
EXP. 9-30-16

CONSULTANT:
So Cal Fire Inc.
14102 Holt Avenue
North Tustin, CA 92705
714 368 0230
C-16 # 898658

CONSULTANT STAMP:
THOMAS
Classification C-16
License No. 898658

PROJECT NAME:
El Monte HS
3048 Tyler Ave.
El Monte, CA 91731

ISSUE DATES:

DESCRIPTION:	DATE:
Fire Sprinkler Plans	01/12/17

PROJECT NO: 11111111

DRAWN BY: Kris Michel
CHECKED BY:

11111111

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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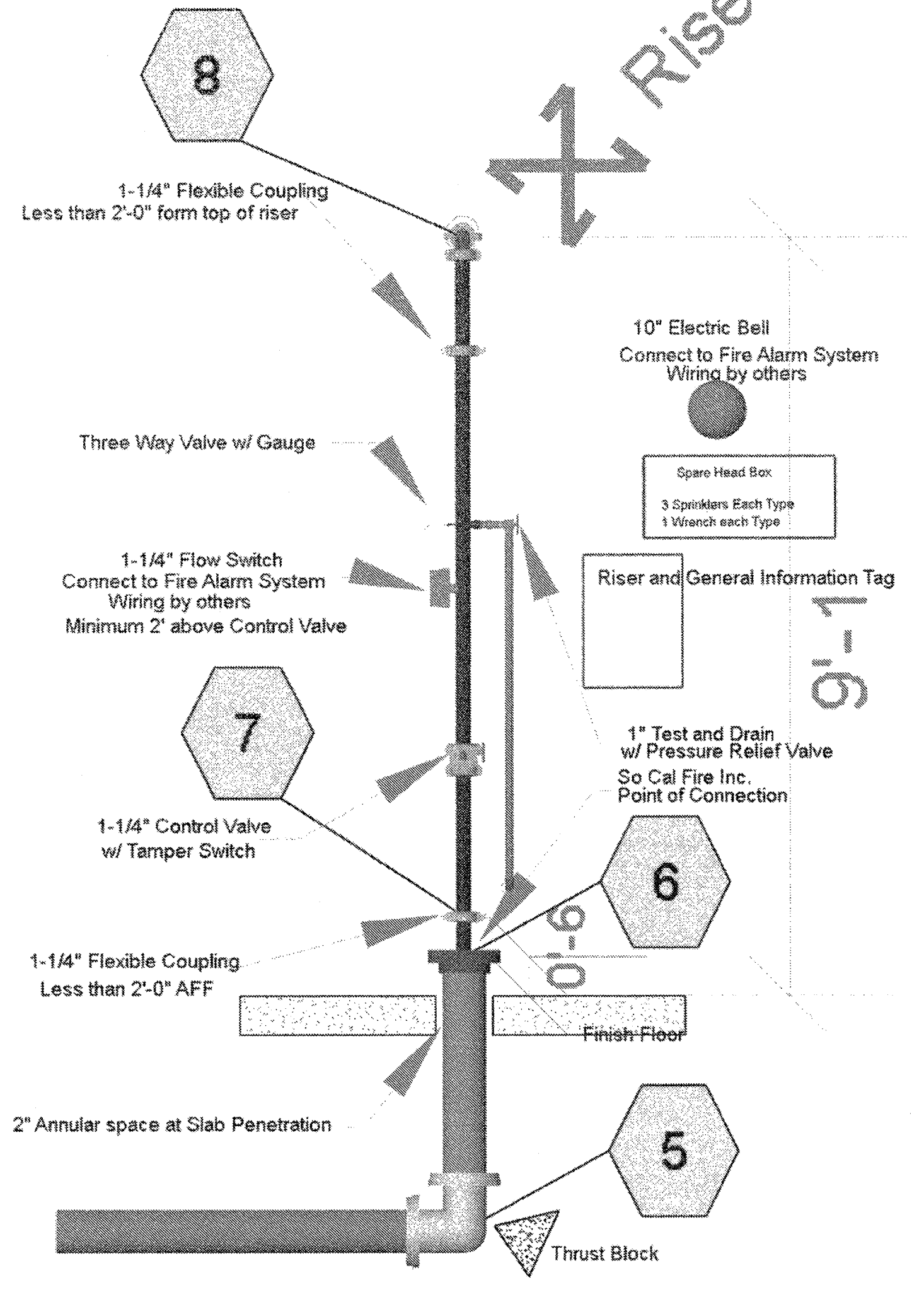
AC ✓ FLS SS
Date 2/3/2017

SHEET TITLE:
Fire Sprinkler plans

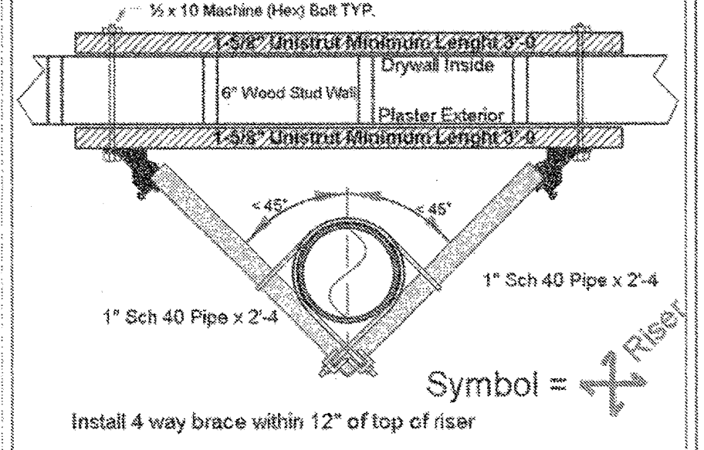
SHEET NUMBER:
FS 2

Riser Detail



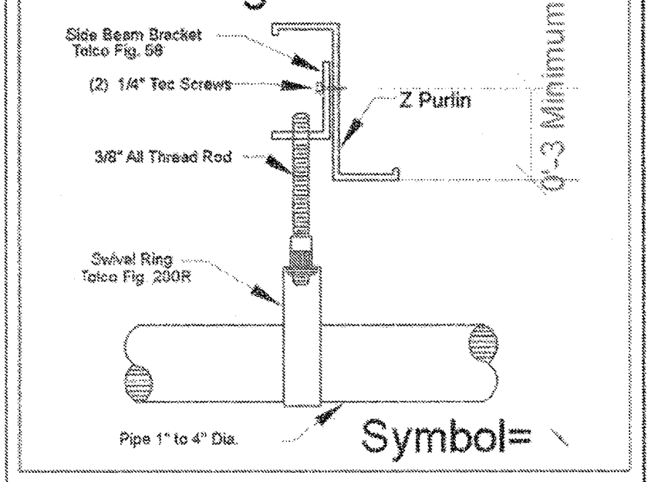
Underground work by others

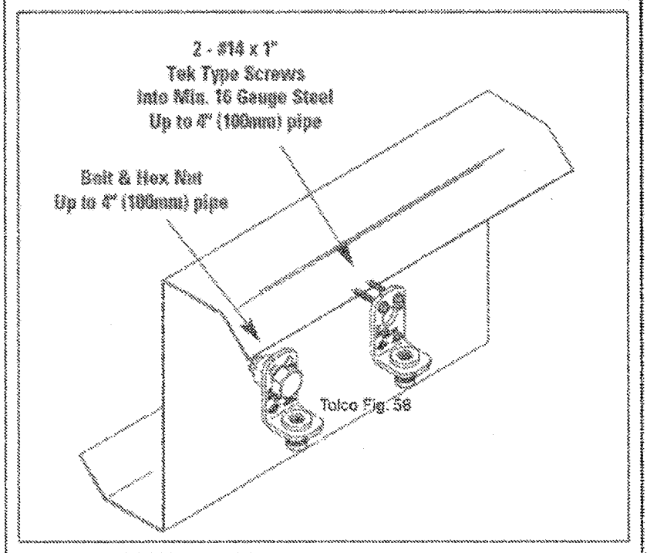
Outside Riser Brace Detail



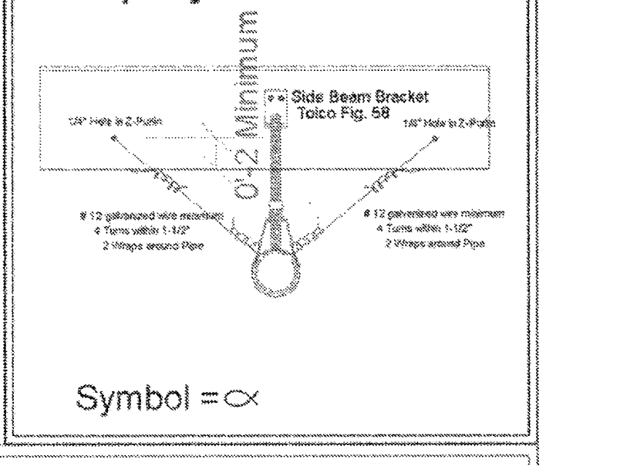
Install 4 way brace within 12" of top of riser

Hanger Detail

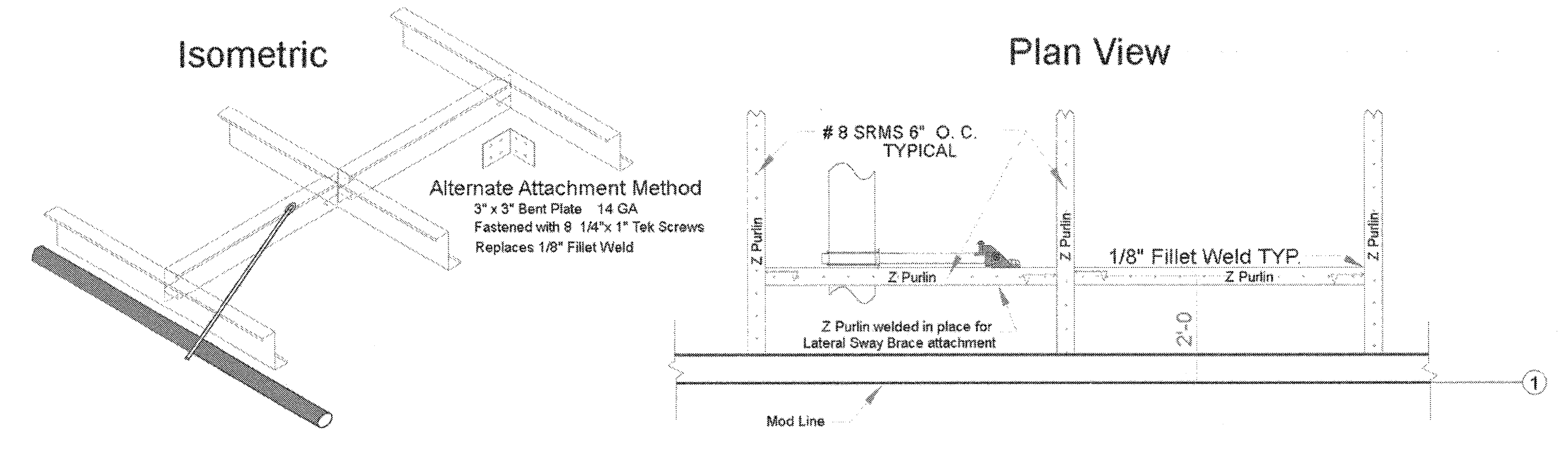


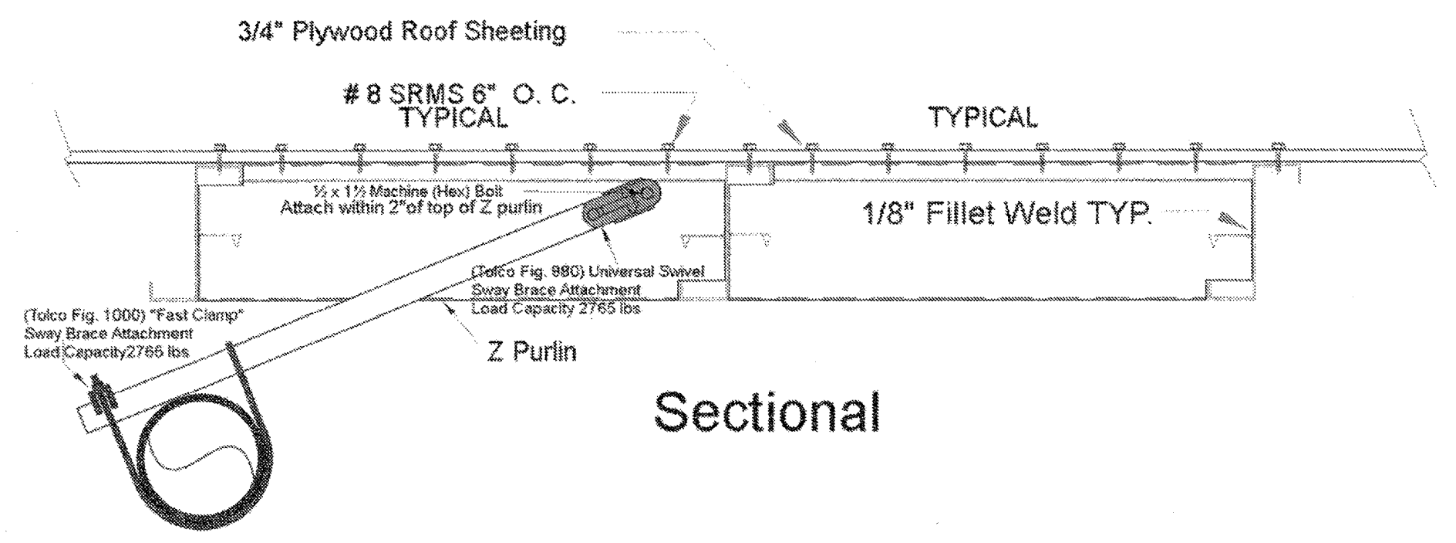


Splay Wire Detail



Lateral Sway Brace Detail
650 lb. Max. Horizontal Load
AT Z PURLIN ATTACHMENT


Isometric
Alternate Attachment Method
3" x 3" Bent Plate 14 GA
Fastened with 8 1/4"x 1" Tek Screws
Replaces 1/8" Fillet Weld
Plan View
# 8 SRMS 6" O. C.
TYPICAL
Z Purlin
Z Purlin
Z Purlin
1/8" Fillet Weld TYP.
Z Purlin
Z Purlin
Z Purlin welded in place for
Lateral Sway Brace attachment
2'-0
Mod Line
1

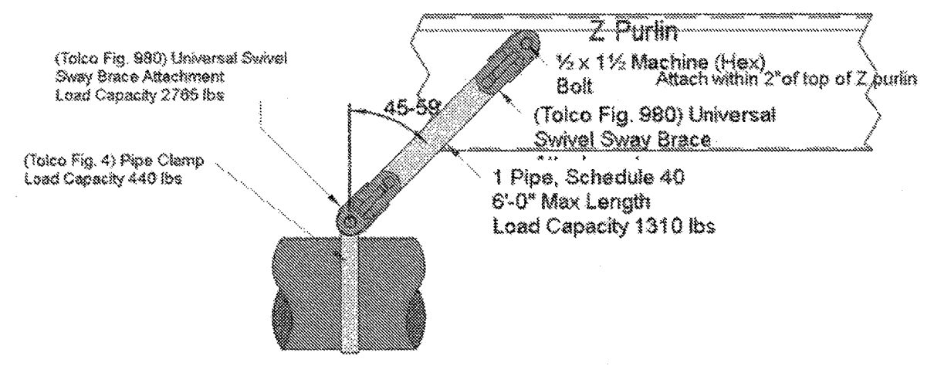


Sway Brace Information

Brace Type	Brace Pipe Size	Fastener Type	Fastener Orientation
Lateral	1"	Machine (Hex) Bolt	NFPA Type "I"
Brace Angle	**Attached To**	**Fastener Size**	**Maximum Fastener Load**
60-90	Steel	½ x 1½	2260lb

Code: NFPA #13 - 2013Table: 9.3.5.12.1 Manufacturer: Tolco Inc

Longitudinal Sway Brace Detail
650 lb. Max. Horizontal Load
AT Z PURLIN ATTACHMENT



Sway Brace Tag

Brace Type	Brace Pipe Size	Fastener Type	Fastener Orientation
Longitudinal	1"	Machine (Hex) Bolt	NFPA Type "I"
Brace Angle	**Attached To**	**Fastener Size**	**Maximum Fastener Load**
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Code: NFPA #13 - 2013Table: 9.3.5.12.1 Manufacturer: Tolco Inc

SILVER CREEK

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ISSUE DATES:

DESCRIPTION:	DATE:
Details	03/24/16

PROJECT NO: 11111111

DRAWN BY: Kris Michel
CHECKED BY:

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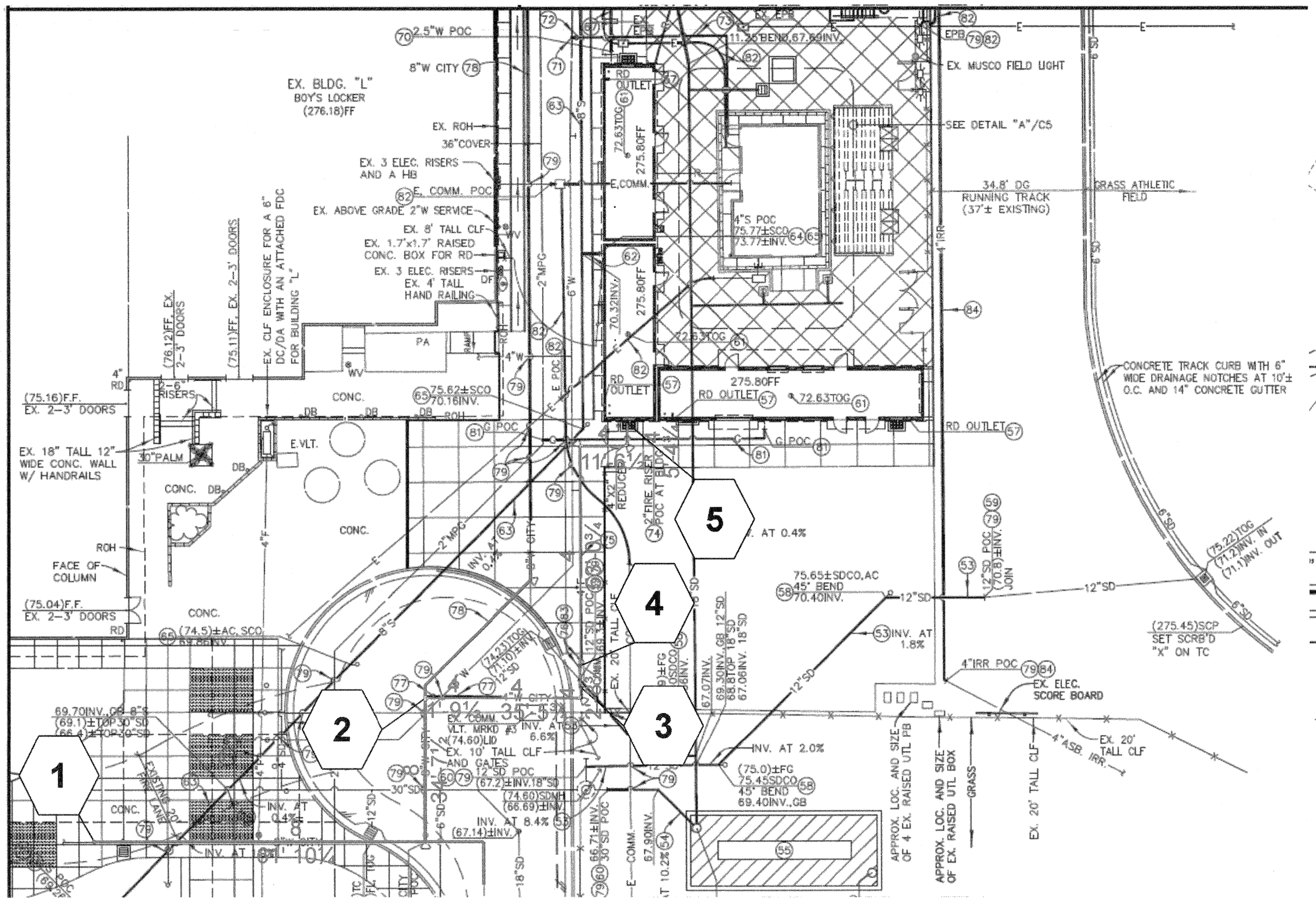
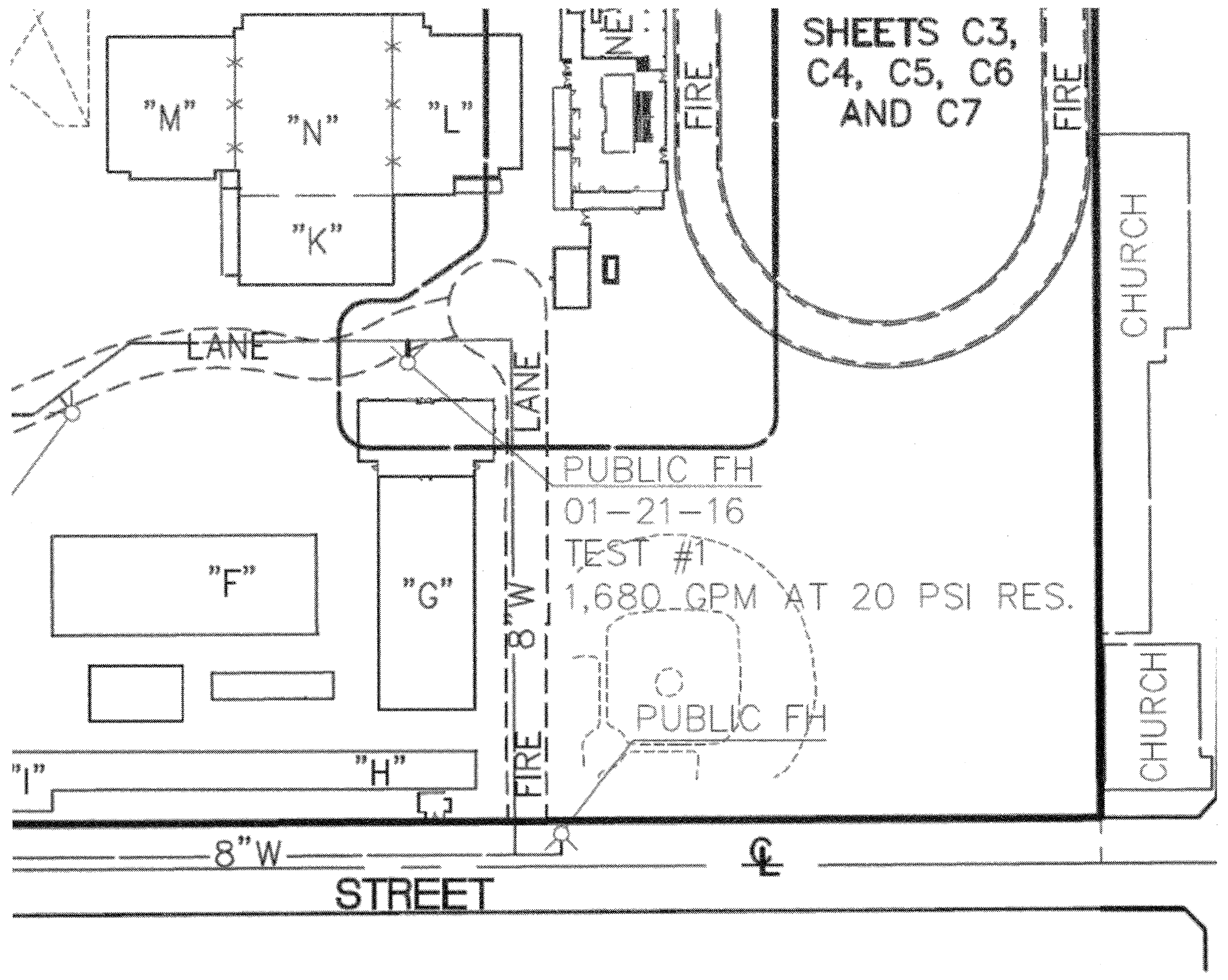
Date 2/3/2017

SHEET TITLE:
Details

SHEET NUMBER:
FS 3


1
2
3
4
5
EX. BLDG. "L"
BOY'S LOCKER
(276.18)FF
2.5"W POC
8"W CITY
EX. ROH
36"COVER
EX. 3 ELEC. RISERS AND A HB
E. COMM. POC
EX. ABOVE GRADE 2"W SERVICE
EX. 8' TALL CLF
EX. 1.7'x1.7' RAISED CONC. BOX FOR RD
EX. 3 ELEC. RISERS
EX. 4' TALL HAND RAILING
EX. CLF ENCLOSURE FOR A 6" DC/DA WITH AN ATTACHED FDC FOR BUILDING "L"
EX. MUSCO FIELD LIGHT
SEE DETAIL "A"/C5
34.8' DG RUNNING TRACK (37'± EXISTING)
GRASS ATHLETIC FIELD
CONCRETE TRACK CURB WITH 6" WIDE DRAINAGE NOTCHES AT 10'± O.C. AND 14" CONCRETE GUTTER
RD OUTLET
275.80FF
4"S POC
6"x4" REDUCER
6" FIRE RISER POC AT
INV. AT 0.4%
12"SD
INV. AT 1.8%
4"IRR POC
EX. ELEC. SCORE BOARD
EX. 20' TALL CLF
EX. 10' TALL CLF AND GATES
INV. AT 2.0%
INV. AT 8.4%
APPROX. LOC. AND SIZE OF 4 EX. RAISED UTL PB
APPROX. LOC. AND SIZE OF EX. RAISED UTL BOX
GRASS
EX. 18" TALL 12" WIDE CONC. WALL W/ HANDRAILS
FACE OF COLUMN
(75.16)F.F. EX. 2-3' DOORS
(75.04)F.F. EX. 2-3' DOORS
E.VLT.
CONC.
PA
(275.45)SCP SET SCRB'D "X" ON TC

Not to Scale
For Hydraulic Reference Only



EXISTING SITE PLAN INDEX MAP

SCALE: 1"=200'

SILVER CREEK
Building for the Next Generation
2380 Barret Avenue
Perris, CA 92571

ARCHITEC STAMP:

JACK F. SHIVELY III

ENGINEER STAMP:

NO. 26885

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14102 Holt Avenue
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714 368 0230
C-16 # 898658

CONSULTANT STAMP:

PROJECT NAME:

El Monte HS
3048 Tyler Ave.
El Monte, CA 91731

ISSUE DATES:

DESCRIPTION:	DATE:
Site Utility	01/26/17

PROJECT NO: 11111111

DRAWN BY: Kris Michel
CHECKED BY:

11111111

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
A 03 117117
AC ✓ FLS SS
Date 2/3/2017

SHEET TITLE:
Site Utility

SHEET NUMBER:
FS 4